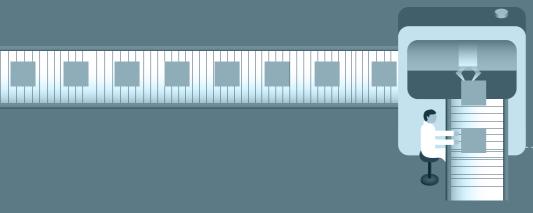


CATALOG



ESA elettronica S.p.A.

Tel. +39 031 757400 Fax. +39 031 751777

ESA energy S.r.l.

Tel. +39 0464 443272 Fax. +39 0464 443273

ESA Europa S.L.U.

Passeig del Ferrocarril, 335 08860 Castelldefels (Barcelona) - España Tel. +34 936455014

意萨电子科技(上海)有限公司 中国上海市宜山路889号齐来工业城4号楼6层D1

ESA Electronic Technology (Shanghai) Co. Ltd

Shanghai 200233 - P.R.China

ESA Technology Inc.

ESA elettronica S.p.A.

Tel. +39 0587 296014 Fax. +39 0587 294240

ESA Elettronica GmbH

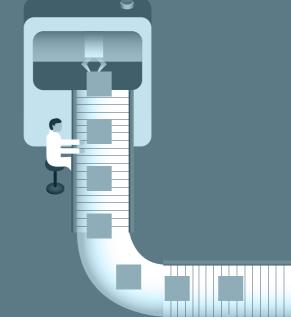
Carl-Zeiss-Strasse, 35 Tel. +49 6074 486 45 0 Fax. +49 6074 486 45 66

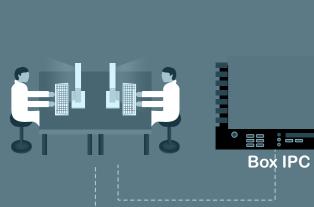
ESA Software & Automation India Pvt. Ltd

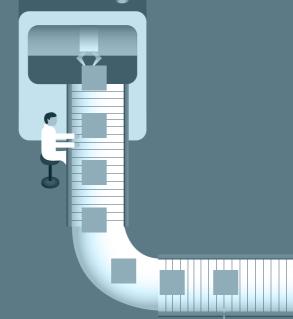
Bangalore 560 043 - India Tel. +91 80 25435656

ESAElektronik Technology Ticaret Limited Şirketi

Şerifali Mah., Çetin Cad. Kıble Sk. Tel. +90 216 466 70 33 Fax. +90 216 466 70 99









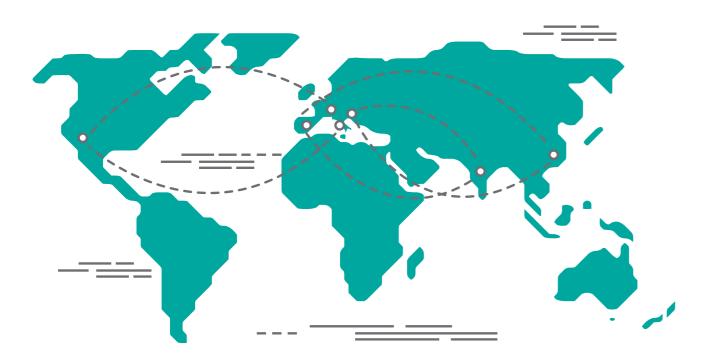
The Heart of Automation and The Art of Innovation

face of industrial automation is transforming and by making your job easier and ensuring a better future for our industry, ESA Automation remains one of the primary driving forces in this positive change.

For ESA Automation, sustainability and technology can not only coexist, but they can merge, contribute to each other and evolve into something better. We create solutions, not just products, Innovation that will optimize every process, according to our values of dynamism, flexibility and openness.

At ESA Automation, we believe in a boundaryless organization, where technology helps you achieve any goal, with this aim in mind, we develop autonomous, open solutions that require minimum input and that reflect the pioneering principles of the Industry 4.0.

We've been working hard to simplify your job with well-designed, smart products, in line with the Internet of Things (IoT) and the Internet of Services (IoS) principles. Products that offer state-of-the-art technology for the best value for money with professional customer care service and on time worldwide delivery.



Borderless innovationJoin our international community

Since starting our activities in 1975, ESA Automation has maintained its goal: to provide innovative solutions for industrial automation. Today, we have grown to become a multinational and multicultural ethical company with branches in seven countries, and our mission belief is stronger than ever.

We have created an international community, with clients, suppliers, researchers, engineers

and stakeholders that share the same passion for innovation and an outstanding ability to create value. We have satisfied industries ever demanding needs for better solutions by expanding and developing into new fields. Together we can work to create a new and better approach to production and industrial automation, and create sustainability through efficiency.

Overview

Smart Tech. Ease of Use.



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HMI + SoftPLC pag.32



IPC pag.54



REMOTE ASSISTANCE pag.12



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codesys pag.16



PAC pag.44



pag.82



Make your experience more interactive.

Explore the world of ESA Automation







CREW

Our platform. Your touch.

Crew is the innovative Esaware software SCADA that allows you to program any HMI or PC. The Crew suite consists of an intuitive editor with a modern look and feel, and the Runtime component is completely cross-platform. In fact, the Runtime can be displayed both on embedded and open platforms, such as any PC. But Crew is even more versatile: you can also display project pages on mobile devices like smartphones or tablets, thanks to full compatibility with HTML5 technology.

Crew is compatible with the following operating systems:

- Windows XP Pro Service Pack 3
- Windows 7 all versions (32/64 bit)
- Windows 8.1 all versions (32/64 bit)
- Windows 10 all versions (32/64 bit)



SMS and Email

With Crew, you can easily send SMSs and emails for any event occurred in Runtime so that you can always be updated in real time on what happens in your production plant. Users can configure the SMS and email notifications very easily just by adding the email addresses and mobile numbers. Crew allows you to differentiate recipients as addressee, cc or bcc, just like any other email service software, and it is also possible to send emails and SMSs to users that are not listed in the project. The notification system is managed by our Everyware infrastructure through an encrypted connection, for your peace of mind.



Crew responds to your gestures

Crew Runtime works perfectly with multi-touch applications by quickly adapting and responding to ordinary commands. Details of the project can be navigated and edited with common multi-touch gestures such as "Pinch", "Scroll" and "Swipe" - some of which work even on resistive touch screens - allowing you to zoom in and interact with your project. A unique feature on the industrial automation market. Finally, Crew offers advanced users management options, such as a graphical password system and powerful tools to archive any data.



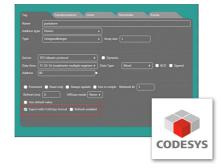
Crew puts safety first

Crew Runtime conforms to the FDA directives, including the CFR21-part 11 about Food and Drugs, and make it very easy to develop applications in compliance with these regulations. Users can also trace, record and authorize all Runtime activities, for example using an electronic signature.

Crew is also App

Crew Apps have been designed to control your plants from any mobile device, such as smartphones and tablets with Android or Windows Phone operating system. Our native app works with a one-hand free logic and together with the read only and editing mode, it makes the usage of any smartphone or tablet much easier.





Bridge functionality for better integration with CODESYS SoftPLC

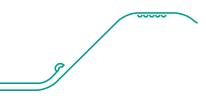
Crew is the first SCADA to have introduced the bridge functionality in industrial automation. We have increased the integration between Crew Runtime and the CODESYS SoftPLC, enabling communication with any device included in Crew drivers list.

Dynamic filters in Runtime

By long-pressing with your finger on the column heading of any view, you can add a dynamic content search filter in an easy and intuitive way. This functionality is very important for maintenance departments. You can find this kind of filters in the Alarm Viewer, Datalog Viewer, Recipe Viewer and the User Viewer.

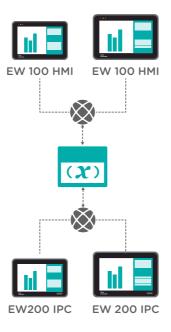


SCADA SCADA



HMI and IPC network project

Create your own network of HMIs and IPCs with a Master/Slave architecture, in order to share all variables and data through a network among all connected devices.





Data structure management and array of TwinCAT structure and CODESYS

Crew lets you manage and import structures and arrays for TwinCAT protocol and CODESYS. Therefore, you can create project variables that point to the elements of the structure.

Crew and CODESYS

Crew and CODEYS are strictly integrated. It is possible to share in automatic mode all the tags that come from CODESYS projects. Crew also allows you to download and create a backup of the application without the CODESYS editor.



HMI / PC T2 T3 50 100

Visualization and comparison of historical trends in Runtime

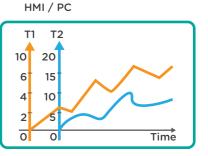
Once exported trends from Runtime viewing, it is possible importing them again and making comparisons between different historical traces captured in different intervals.



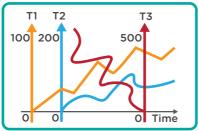
Multi-scale visualization on objects trends in Runtime

For an easy consultation, it is possible viewing at the same time the scales of different pens acquired in trends viewing.

Is also possible to have directly autoamatic adjustment of scales.



HMI / PC



Management of multi scale position on trend objects

For an easy readability it is possible to decide the scale position of each pen inside the trend viewing.

User language

With Crew you have the possibilities to relate the visualization language to the logged user. With this functionalities is very easy to manage a different users with different language.





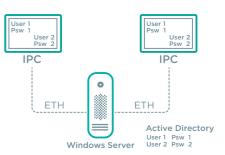
Simulation

With Crew is possible to simulate your project and your application without driver. Inside we have integrated for you a Simulation Offline and Simulation Online functionalities.



Users from Windows

If your project is inside of the domain network, you are able to import the Users of the project directly from Active Directory of Windows.



SCADA SCADA







ESA Automation presents the most comprehensive range of "ALL IN ONE" PAC controllers and includes bright high definition touch screens from 4.3" up to the impressive 15".

Discover the potential in our renowned PLC, HMI, CNC, Motion Control and IT server, in one powerful device with the number of I/O and Axis easily increased using our CAN Open expansion boards. Realise the huge advantages of writing a SINGLE APPLICATION that incorporates PLC, CNC and HMI functions. We produce standard ISO (G code) CNC solutions for machining wood, glass, stone, ceramics, plastic, and other materials.

ESA has the right solution to improve your machine.

The ESA Automation Application Engineering Service and "Turnkey" customer oriented solutions.

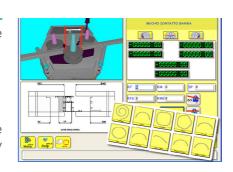
We offer a complete customer oriented automation "Turnkey" solution, including HMI, CNC, PLC and SCADA application development, debug, simulation, and full training of you engineers. Moreover, we provide onsite final testing on the customer's plant or on the end user plant. Possibility to have customized applications.

For many years we have developed complete machine applications for numerous industrial fields, including:

Machine tools for metal working

Tube bending machines

for this particular machine we have developed one of the most complete control solution, based on macro user-friendly programming cycles, for single or multiple working machines.



Band saws cutting machines

we have different applications for these machines, from a basic solution with keyboard and display, to the big touch screen based four axis machine motion and PLC control.

Screwing machine

we have developed a machine center for working on iron bars. that can provide all kinds of drilling, screwing and milling thanks to a wizard macro programming tool.





MACHINE TOOLS FOR WORKING SHEETS

Laser, water iet and plasma cutting

The complete solution, up to four axis, with integrated standard or gantry axis management, for all Cartesian robots for metal sheet (but also stone, plastic, rubber, paper) cutting and engraving. ISO (G code) interface that can be easily adapted to all the CAD CAM you may need by our post processor making service. Moreover, a lot of scalable tools like DXF to Macro and DXF to ISO generators can be added to the application.



Press brakes

Like all the other applications, our Press brake application is easy to use and guides you through the making of all your pieces. A flexible graphic editor will guide you through the entire metal sheet manipulating process.

Cutting, pressing, profiling and straightener metal sheet lines A completely configurable metal sheet working all-in-one application that includes PLC and Motion control.

MACHINE TOOLS FOR ALU & PVC WINDOWS **PROFILES AND SECTIONS**

Cutting single or double head machines application

The ESA Automation PVC and ALU profiles cutting single or double head machines application synthesizes twenty years of experience. It is our most complete application, including profiles typology management, profiles cutting formulas, importing and exporting tools for the most important windows cad drawing tools.

Alu profiles machine centers

The 3D simulation tool opens different scenarios of machining programming, as you can decide to work starting from a Macro, from a DXF drawing, from a Macro generated by a DXF drawing, or simply connecting it to an external CAD CAM. Inputs and outputs of the SoftPLC can be configured on a page protected by a password. Moreover, a good oscilloscope function allows you to trigger and to follow the behavior of all axis variables.





CNC - Motion **CNC - Motion**

Wood Working Machines

Wood windows profiles machine centers

The wood profile machine center applications by ESA Automation include several machines, from the simplest 3 axis standard wood engraving doors and windows profiles machine centers to the most complete producing line, up to 50 Axes or more.

Panel machining centers

You can count on several Cad cam solutions, in order to draw directly on the CNC application the shape you want to engrave, generating directly ISO (G code), together with the availability of Macro programming or using our DXF to ISO and DXF to Macro scalable tools.

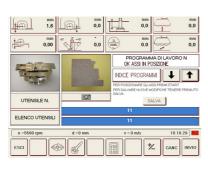
Spindle molder and circular saw solutions

We work for the most important machines producers in the world and we offer a complete range of scalable hardware and software solutions with the best value for money. Our solutions are ready to manage radio controlled registers and tools changing systems.

Edgebander machines

For these machines, we offer a dedicated hardware and software solution. All the applications are fully configurable, with the possibility to scale the machine layout, activating or deactivating all the edge working groups. We can manage both motorized and pneumatic groups, and the application fully controls the temperature of the gluing groups.



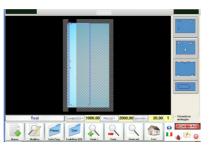


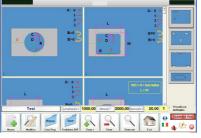




Cables and wires working machines

The ESA Automation application for working cables machines is a very powerful control software that can completely manage a 4 axis controlled machine, with a motorized blades group or a pneumatic controlled one. The application can also manage the raw cables and wires database, in order to assign a wiring working order with different kinds of wires and cables. The application supports all the most diffused inkjet fast printers. The working order can be sent by net and web, and can be imported from XLS files. A user-friendly interface allows you to program and configure the order list very quickly.





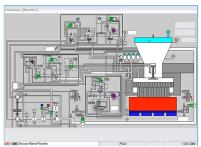
Glass vertical and horizontal machine centers

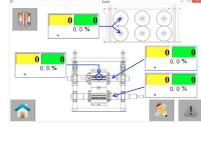
The application includes a rich endowment of macros that automatically includes all the "pre-process" necessary to prepare the glass sheet for the final working, without the risk of breaking it. The application can be connected to different CAD CAMs and can be easily configured for different sizes of machine. Finally, it can also support different layouts of axis configuration.

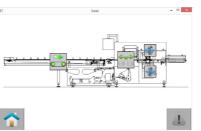


Ceramic plates processing plants

Our solution for the tiles production line and press control has been chosen by the main players of this market. It includes the management of the entire production cycle, from the dust dosing on the dies, to the continuous parallelism control and the precise expulsion of the tiles.







Packaging machines

The ESA Automation flow pack 3 - 5 axis electronic cams based application can manage different machine sizes and layouts. From the standard flow pack with rotating sealing group to the translating one, the app can manage several sealing processing options, as "no product, no bag" or "no phase, no seal". The sealing group temperatures are controlled by the application, and the motor can be driven by digital field buses or by analog or step + dir outputs. Different brands of "on line" inkjet printers are available on the configuration pages, as well as various options in the machine phasing of the electronic cams.

12 CNC - Motion CNC - Motion



Everyware Control beyond distance

Thanks to the Everyware remote maintenance platform, you can safely control your applications wherever they are. This innovative remote maintenance package eliminates any distance and border between users and their production plants. Without any additional hardware or configuration, you can access, control and modify your system just by using a common internet connection. Everyware starts an encrypted connection between two clients ensuring the system security and giving access to all devices on that system. And if you are in the private network, you can use the Everyware services without any cost.

Everyware is on Cloud

Everyware remote maintenance platform is on the Microsoft Azure Cloud infrastructure, offering wider connectivity and reachability.



SMS and email notifications

Everyware manages for you all SMS and email notifications configured on CREW, making it extremely easy. In fact, you only have to add mail addresses and mobile numbers, forgetting about all the rest. Thanks to Everyware infrastructure, your SMSs will be sent all over the world at the same cost. You have also the possibility to enable and disable SMS and email notification for each single device or for a folder.



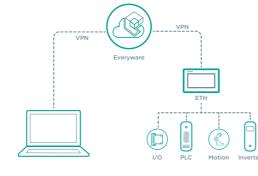
Chat in real time

Thanks to our chat service you are able to cut expensive longdistance phone calls and to follow your customers step by step. Chat history is also available: this way, you can open an old chat transcript that contains maintenance instructions. All language character sets are available in our chat service.

Work in complete safety

Thanks to an encrypted VPN connection based on the TLS1.2 algorithm, your connection with the Everyware infrastructure is protected from any system intrusion attempt, even when you send the SMSs and emails. This is very important to keep your data safe.





Access to any network and subnetwork in the plant

Through an encrypted VPN connection between the teleassistance PC and the devices, you are able to download, debug and upload the application that runs inside. This guarantees total accessibility to all devices installed in the plant.

Access to serial devices

Thanks to the virtualization of the serial port inside Ethernet connections, you are able to download, upload and debug the applications that runs in a serial device connected to our HMI or PC.

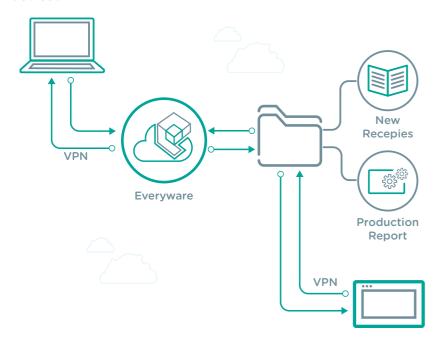


Remote Assistance Remote Assistance

Everyware

Share files and folders directly with a remote device

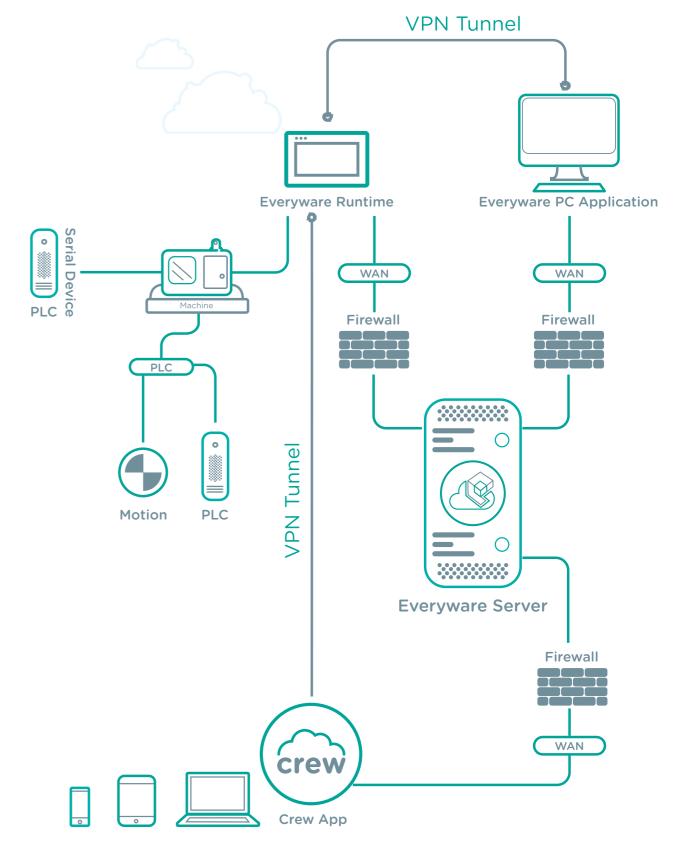
Through a standard FTP service, you have the possibility to share all kind of data between the tele-assistance PC and remote devices.



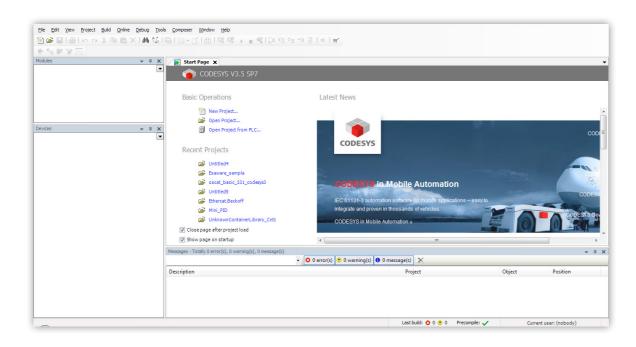
Remote interaction

With Everyware, you have the possibility to disable the touchscreen during Remote Desktop sessions or to show a system blank page during the session in order to protect the password or the commands.





Remote Assistance Remote Assistance





The most recognized and comprehensive IEC 61131-3 development environment for programming Industrial Controllers.

ESA's seamless integration between CODESYS and Crew enables "one click" sharing of all project information, this time-saving function includes the ability to use CODSYS tags directly in Crew. The combination of CODESYS runtime and EtherCAT Master provides the optimized solution for any local or distributed PLC application.

The following functions and languages are supported:

Ladder diagram

Structured text

Sequential function chart

Continuous function chart

Function block diagram

Integrated visualisation

Trace functions

Offline simulation

All programming languages can be used in combination with one another

Simultaneous conversions possible

All standard data types:

BYTE, WORD, DWORD, SINT, USINT, INT, UINT, DINT

Symbolic operands with no length restriction

Context-sensitive help functions

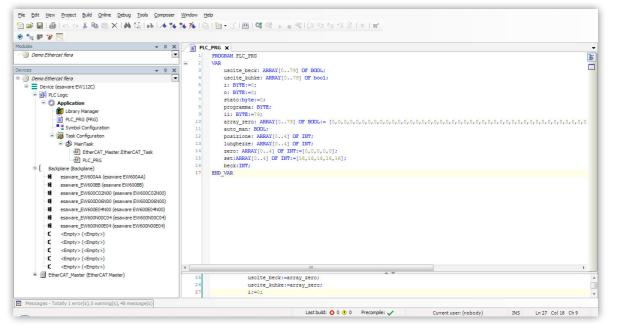
Global search and replace

Disc space check prior to download

Unlimited number of function parameters

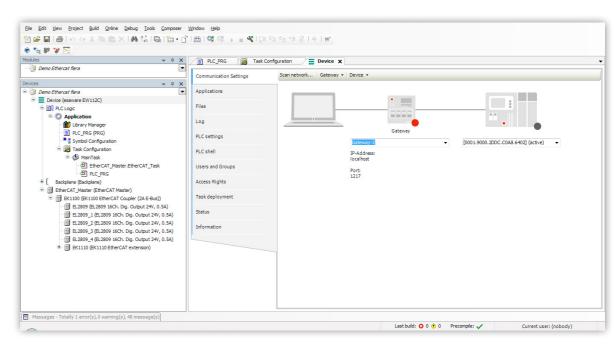
Within CODESYS environment you will find:

- Possibilities to have cross platform library to use in different application and projects
- All development languages IEC 61131-3 (FBD, LD, IL, ST, SFC)
- Project configuration with simple wizard
- IntelliSense assistance for the input and configuration of data
- Project comparison and debugging
- Structure management for Tags
- Free Download



Thanks to CODESYS development tool it is possible programming through to the structured language.





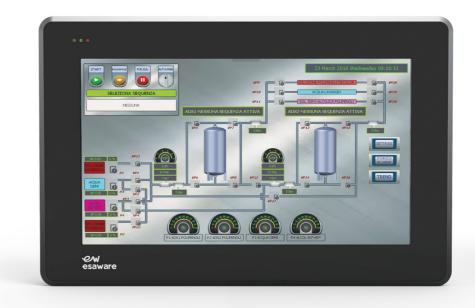
Simple interaction with project hardware configuration to go on line with different present partners.



CODESYS











Esaware HMI Control made easy

EW100 is the new generation of HMIs based on a modern, powerful architecture that combines visualization, supervision and control of your applications.

Esaware HMI products fully exploit the potential of the Windows • Operating System Windows Embedded Compact 7 operating system, the only solution that offers transparent interconnection with any company system together with the well-known reliability of the embedded operating systems.



Our Esaware HMI solutions have a In Esaware HMI, esthetics and widescreen display that can be dimmed functionality become one, thanks up to 100%, and they offer up to 40% to the innovative design "Twist": an more viewing surface compared to inclined surface that prevents the a traditional 4:3 display. In addition retention of dust and other corrosive LED backlit displays excel in durability substances. Safety and durability are thanks to a significant energy saving.



further enhanced by a robust aluminum case with PTFE, non-stick, coating.

Our standard HMI for visualization, control with Remote Maintenace Platform.

- Embedded Compact 7 Pro
- Preloaded Everyware runtime
- SNTP Server and Client
- Aluminum Front Side PTFE coating
- True Flat Touch Screen
- Status leds on front
- CPU Arm Cortex A8 1 GHz
- Ram DDR3
- Internal Memory 3 Gbyte
- SDHC v2.0 (up to 25 Mbyte/s)
- High Bright 16 Millions Colors Display

Features	EW104AA	EW107AA	EW112AA	EW115AA
Display Size	4,3"	7"	12,1"	15,6"
Display Technology		Т	FT	
Display Colors	262k		16M	
Display Backlight		L	ED	
Display Brightness (cd/m²)	400	600	400	300
Display Resolution (pixel)	480 x 272	800 x 480	1280 x 800	1366 x 768
Backlight life (hours)		5	50k	
Processor		ARM C	Cortex A8	
RAM	256 M	B DDR3	512 ME	B DDR3
Flash		3	GB	
Serial Ports	SP1 R	S232/485-MPI-COM0 ; SP2 RS2	32/485-MPI-COM0 ; CAN ; Prof	ibus
Ethernet	1 x 10/100Mb	1 x 10/100Mb 2 x 10/100Mb		
USB Ports	1 x USB Host + 1 x USB Device 2 x USB Host + 1 x USB Device			
Cardbus Slot		1 x SDHC/MMC		
Power Supply (Vdc)		12	- 32	
Consumption (W)	4	7	15	19
Operating Temperature (°C)		-10 + 50 (n	non condensing)	
Storage Temperature (°C)		-20	+ 65	
Humidity		<90% (non	condensing)	
External dimensions (W/H/D) (mm)	166 x 112 x 46 (61 with double port)	202 x 142 x 46	341 x 239 x 49	437 x 286 x 54,5
Cut-out dimensions (W/H) (mm)	158,5 x 104,5	195,0 x 135,0	326,0 x 227,0	422,5 x 271,5
Weight (kg)	0,5	0,8	2,5	4,5
Protection degree (front)		IP	66	
Certifications	CE / EN60068-2-6 / EN60068- Directive	-2-27 / Humidity EN60068-2-30 94/9/EC Atex Group II - Cate	0 / cULus (Certificate no. E18917 gory 3 G-D Zone 2/22	79) / EAC /

HMI







Stainless steel HMIExtreme durability. High endurance.

The 7" IT107W and 12" IT112 with AISI 304/V2A stainless steel bezel and TRUE-FLAT touch screen make cleaning quick, easy and effective.

Thanks to the front bezel's very high degree of protection, IP69K according to ISO EN 20653, these HMIs offer excellent chemical resistance to highly corrosive substances (such as cleaning chemicals, alkaline substances, etc...) and safeguards against frequent washing at high pressure, such as is normal in the food, pharmaceutical and chemical industries.

The large outside edge radius of curvature on the bezel (4 times the minimum required by law) prevents deposition and contamination of bacteria or microbes on the front. In addition, the front panel complies with DIN EN1672-2, EHEDG guideline and FDA requirements in the food, pharmaceutical and chemical.

The stainless steel HMIs are equipped with industrial displays and high brightness White LED backlight, touch screen technology with 4 or 5 wires that ensures optimal functionality even with superficial damage on the surface.

The stainless steel HMIs, in addition to CE compliance are certified ATEX (Zone 2/22, category 3~G~/D), ensuring total security and protection of the system.

Stainless steel HMIs are equipped with:

- SP1 serial port (RS232 / RS485 with integrated MPI)
- USB port (type of device) for programming the terminal
- COMO port (RS-232), USB port (host type) for connecting peripheral devices (headboards and mouse), for easy import/ export data on USB key and printing reports
- Serial port SP2 (RS232 / RS485 with integrated MPI) CAN, Profibus-DP or ProfiNet
- Ethernet Port 10/100 Mbit
- Slot for Secure Digital and MultiMedia Card (MMC)
- Second slot for Compact Flash memory
- Extended power supply range 18..32 Vdc and extremely low power consumption
- Powered by Polymath

Features IT107 Wide IT112

S. 1 S.				
Display Size	7 "	12,1 "		
Display Technology	TFT			
Display Colors	65k			
Backlight life (hours)	50k			
Display Backlight	LE	:D		
Display Resolution (pixel)	800 x 480	800 x 600		
CPU	Intel P.	XA 270		
RAM	64MB	128MB		
Flash	32MB	64MB		
Serial Ports	SP1 (232/485/MPI), SP2 (RS-232/48	5/MPI), CAN, Profibus-DP, ProfiNet		
USB port Host	1 x v 1.1	2 x v. 1.1		
USB port Device	1 x v 1.1			
CardBus Slot	1 x Secure Digital			
Compact Flash Slot	-	1 x Compact Flash		
Ethernet	1 x 10/100 Mb	2 x 10/100 Mb		
Hardware Clock	Supercapacitor 72h			
Power supply (Vdc)	18 -	32		
Consumption (W)	8	15		
Operating Temperature (°C)	0 + 50 (nor	n condensing)		
Storage Temperature (°C)	-20 + 65			
Humidity	<85% (non condensing)			
External dimensions (W/H/D) (mm)	202 x 142 x 39,2 (SP1) / 202 x 142 x 58,2 (SP1-SP2) 336,3 x 256 x 62,9			
Cut-out dimensions (W/H) (mm)	194 x 134	314 x 240		
Weight (kg)	~ 2,2	~ 4,6		
	IP 69K			
Protection degree (front)	IP 6	9K		

22 HMI 2

IP 69K

SC210





ESA Automation presents an entry-level HMI solution.

SC series is equipped with ABS plastic chassis that guarantees great sturdiness and durability.

SC HMIs are available in different sizes 3.5" (SC103), 7" (SC107 and SC207) and 10,1" (SC110 and SC210). All wide displays with white LED back-lighting and TRUE-FLAT Touch screen.

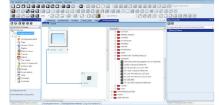
Advanced technology combined with wide connectivity.

SmartClick Software



operator panels.

The enhanced features allow intuitive manner. for the management of data structures, such as Recipes,



SmartClick is the software Trends, Data Logs, active and package for configuring SC historical alarms and User management in a quick and

HMI

SC series is equipped with

- Ethernet port for programming and communication with the
- A dual RS232/RS485 serial port with COMO port functionality, the ESA's OPEN serial port enables communication with any kind of custom solution

SmartClick incorporates advanced functionalities including:

- Rich object library
- Level project page management
- Importing/exporting project
- Transferring stored data
- Project back-up and restore
- VB script with intellisense
- OFF-LINE and ON-LINE simulator
- Dictionary
- Automatic project storage
- Indirect addressing



SC103



SC207

Features	SC103	SC107	SC207	SC110	SC210
Display Size	3.5" Wide	7" W	/ide	10.1"	
Display Technology			TFT		
Display Colors			65.536		
Display Backlight			LED		
Display Resolution (pixel)	480 x 272	800 x	480	1024 x 6	00
Backlight life (hours)			30k		
Processor			ARM		
RAM	64	MB	32 MB	64 M	В
Flash			64 MB		
First serial port	Pc (RS232/RS	ort 1 6485/COM0)	SP1 (RS232/485/MPI)	Port 1 (RS232/RS485/COM0)	Port 1 (RS232/RS485/MPI)
Second serial port	-	Port 2 (RS232/RS485/COM0)	-	Port : (RS232/RS48	2 5/COM0)
USB Host port			1 x v 1.1		
USB Device port	-		1 x	v 1.1	
Cardbus Slot	- 1 x Secure Digital/MMC				
Ethernet	1 x 10/100 Mb				
Chassis	ABS Plastic				
Hardware clock	Yes				
Clock battery	Battery (minimum	durability 5 years)		Supercapacitor 72h	
Power Supply (Vdc)			18 - 32		
Consumption (W)	3	5		8	
Operating Temperature (°C)		-10 .	+ 50 (non condensi	ng)	
Storage Temperature (°C)			-20 + 65		
Humidity		< 8	85% (non condensing)	
External dimensions (W/H/D) (mm)	113 x 74 x 44,2	198,8 x 137,8 x 40,3	202 x 142 x 40	280 x 19	0 x 37,5
Cut-out dimensions (W/H) (mm)	105 x 66	190,2 x 129,2	194 x 134	271 x	: 181
Weight (kg)	~ 0,3	~ 0,8	~ 1	~ 1,	4
Protection degree (front)			IP 65		
Certification			CE		

SC107

HMI





Keyboard HMI Don't touch, just press my keys.

ESA Automation offers the IT series with keyboard.

For applications where direct tactile keyboard input is preferred to a touchscreen keyboard, the IT105TK is perfect. The HMI has a bright 5.7" TFT display with white LED backlight. IP66 • 11 alphanumeric keys protection on the front bezel and comprehensive communication options makes the IT105TK the obvious choice for all your harsh

IT105TK is a terminal with 5,7" TFT Display, resolution 320×240, 65.536 colors.



be configured to suit different projects.



Each of the function keys available can
The device memory can be expanded with a SD card. Historic files created in runtime can also be saved.

These the main features:

- 18 operative keys
- 12 function keys
- Powered by Polymath



Features IT105TK

Display Size	5,7"
Display Size Display Technology	
	Graphic LCD TFT
Display Colors Display Backlight	65.536 LED
Display Backlight Display Resolution (pixel)	320 x 240
Backlight life (hours)	50k
Operative keys	18
Function keys	12
Alphanumeric keys	11
Processor	Intel (R) PXA270
RAM (MB)	64
Flash (MB)	32
First port	SP1 (232/485/MPI)
Second port	SP2 (RS232/485/MPI), CAN, Profibus-DP
Ethernet	1 x 10/100 Mb
USB Host port	USB 1.1
USB Device port	USB 1.1
Cardbus Slot	Secure Digital / MMC
Power supply (Vdc)	18 - 32
Consumption (W)	- 10
Operating Temperature (°C)	0 +50 (non condensing)
Storage Temperature (°C)	-20 + 65
Humidity	<90% (non condensing)
External dimensions (W/D/H) (mm)	261,2 x 172,4 x 51,6 (70,6 with double port)
Cut-out dimensions (W/H) (mm)	243,5 x 147
Hardware clock	Supercapacitor 72h
Weight (kg)	- 1,5
Protection degree (front)	IP66
Certifications	CE, cULus, ATEX zona II cat. 3 G/D, DNV, Vibration EN60068-2-6, Shock EN60068-2-27, Humidity EN60068-2-3

HMI HMI





Text HMI

Evergreen solutions for durable control

Where a simple text based operator instructions and hardkey input is favoured, ESA Automation has the answer: Text HMI offers cost effective but powerful user/machine interaction with surprising clarity.



VT50

HMI with text LCD display, 2 rows by 20 characters, 256 KB project, 8 operative keys (5 function keys). Available also with CAN interface.

VT60

HMI with text LCD display, 4 rows by 20 characters, 256 KB project, 6 operative keys (4 function keys). Available also with CAN interface.



VT150

HMI with text LCD display, 4 rows by 20 characters, 256 KB project, 25 operative keys (5+5 customizable 32 KB recipes, 36 operative keys (12 function keys). Available with Profibus- customizable function keys). DP network or with CAN interface.

VT160

HMI with text LCD display, 4 rows by 20 characters, 256 KB project, 25 operative keys (5+5 customizable function keys), 18 customizable auxiliary keys. Available with Profibus-DP network.



- Applications quickly executed
- Alarms, passwords, recipes
- Mathematical functions
- Two drivers run simultaneously
- Serial or parallel printing
- Integrated Profibus-DP and CAN Keyboard input/selection
- Powered by Polymath



VT170

HMI with text LCD display, 4 rows by 20 characters, 320 KB project, clock,



VT150

VT160



VT170

. 0010100				******	******
Display Type			Text LCD		
Display Backlight	LED				
Columns by Rows (text)	20 x 2		2	0 x 4	
Display area size (mm h-v)	73,5 x 11,5		70,4	1 x 20,8	
Text character Matrix (pixels h-v)			5 x 7		
Character dimensions (mm h-v)	3,2 × 5,5		2,95	5 x 4,75	
Contrast adjustment	Trimmer				
Character set	Ascii, Katakana				
Project Memory (bytes)		2	256K		320K
Recipes/Alarm buffer (bytes)			-		32K/8K RAM
MSP serial port		RS-	232/422/485/TTY 20	mA	
ASP serial port			-		RS-232 (9 pin)
Connection with optional keyboard	-		Yes	Integrated	-
Integrated network (optional)	CA	۸N	CAN, Profibus-DP	Profibus-DP	-
Optional		Pro	fibus-DP, Interbus-S, C	AN	
ESA-Net (variables)		(Client		Server (128), Clier
Power supply (Vdc)			18 - 32		
Consumption (W)	5	5		15	9
Operating temperature (°C)	0 +50 (non condensing)				
Storage temperature (°C)	-20 +60 (non condensing)				
Humidity		<	85% (non condensing))	
External dimensions (W/H/D) (mm)	166 x 86 x 41	166 x 86 x 41	148 x 188 x 41	296 x 188 x 42	126 x 196 x 60
Cut-out dimensions (W/H) (mm)	157×77	157x77	123 x175	See installation sheet	107 x 178
Weight (kg)	0,5	0,5	0,7	0,88	0,9
Protection degree (front)	IP	66		IP 65	
Project Languages		4	6		8
Password levels/Bit passwords	-/8		10,	/8	
Pages/Fields per page	127/12		1024/32		1024/16
Format of variables		DEC, HEX	K, BIN, BCD, ASCII, Floa	ting point	
Dynamic texts/Lists of images	Value depends on dimensions of project memory				
ISA alarms/Info-messages	-/128		-/1024		1024/1024
Help messages (pages/info messages/alarms)	127/128/-		1024/1024/-		1024/1024/1024
Alarm history buffer			-		256
					1024/256
Recipes (Number/Variables per recipe)			-		1024/230
Recipes (Number/Variables per recipe) Macros (Number/Commands per macro)		-		1024/16	1024/230
		-	-	1024/16	1024/64
Macros (Number/Commands per macro)	20,	- /20	- - 32/		
Macros (Number/Commands per macro) Print pages (Total/Number of fields per page)	20,	- /20			
Macros (Number/Commands per macro) Print pages (Total/Number of fields per page) Automatic operations/Timers		- /20 6/4/-	32/		

VT060

VT050

Features

HMI HMI







Graphic HMI

Evergreen solutions for durable control

For those applications where more detail is needed than simple text and hard key input is important, the Graphic HMI is invaluable. Capable of importing advanced graphics and having up to 28 keys, these powerful units fulfill a common industrial requirement.



VT130

HMI with 3" graphic LCD display, STN 4 HMI with 10,4" graphic LCD tones of blue, 160×80, 512 KB project, clock, 128 KB recipes, 25 operative keys (5 function keys, 20 customizable). Available also with Profibus-DP network



VT330

display, 256 colors, 30 rows by 80 characters, VGA (640 x 480), MSP (RS232/422/485/TTY), ASP (RS232/485), LPT (Centronics), 2,3 MB project, clock, 256 KB recipes, 74 operative keys (28 function keys, 16 customizable)

These are some features available on graphic HMIs:

- On-screen graphics
- Alarms, passwords, recipes
- Use of Windows® fonts
- Importation of graphic images in any format
- Moving graphic objects
- Two drivers run simultaneously
- Serial or parallel printing
- Integrated CAN
- Keyboard input/selection
- Powered by Polymath

VT130 VT330 Features

Display Type	Graphic LCD 4 tones of blue STN	Graphic LCD 256 colors TFT		
Display Backlight	White LED	CCFL		
Display Resolution (pixel)	160 x 80 (3")	640 x 480 (10,4")		
Backlight life (hours)	50k	30k		
Display area size (mm h-v)	67 x 37	211,2 x 158		
Columns by Rows/Character dimensions		on used Font		
Contrast adjustment	Software			
Character set	Programmable fonts/TTF	Windows® (also Unicode)		
Project (text+graphic) (bytes)	640K	640K+1792K		
Recipes/Alarm buffer (bytes)	16K/8K FLASH	256K/8K RAM		
Memory card for backup/Expansion (bytes)	-	8M/4M (graphic)		
MSP serial port	RS-232/422/4	85/TTY 20mA		
ASP serial port	RS-232 (8 pin)	RS-232/RS485 (15 pin)		
LPT parallel port	-	Centronics		
Integrated (option)	Profibus-DP			
Optional		AN, Interbus-S		
ESA-Net (variables)	Client	Server (256), Client		
Power supply (Vdc)	18 -	- 32		
Consumption (W)	10	15		
Operating temperature (°C)	0 +50 (non	condensing)		
Storage temperature (°C)	-20 +60			
Humidity	< 85% (non condensing)			
External dimensions (W/H/D) (mm)	166 x 100 x 39,6	435 x 260 x 74		
Cut-out (W/H) (mm)	157 x 91	403 x 240		
Weight (kg)	0,5	4		
Protection degree (front)	IP	66		
Project Languages	4	8		
Password levels/Bit passwords	10,	/8		
Pages/Fields per page	64/22	1024/304		
Format of variables	DEC, HEX, BIN, BCD,	ASCII, Floating point		
Dynamic texts/Lists of images	Dynamic texts/Lists of images Value de	pends on dimensions of project memory		
ISA alarms/Info-messages	256/256	1024/1024		
Help messages (pages/info messages/alarms)	64/256/256	1024/1024/1024		
Alarm history buffer	220	256		
Recipes (Number/Variables per recipe)	128/256	1024/512		
Trends (Memory/Number of samples)	-	8192/640		
Pipelines (Number/Total bytes)	•	64/512		
Print pages (Total/Number of fields per page)	64/128	1024/128		
Automatic operations/Timers Equations	-	32/32/32		
Max bargraphs per page (taken together with fields)	32	304		
Indicators,potentiometers,selectors per page	-	256		
Project images	BMP, JPEG, TIFF, etc	BMP, JPEG, TIFF, PSD, WMF, PNG, EPS, etc		
Hardware clock	Supercapacitor 72 hours	With battery		
Operative/function/alphanumeric keys	10/5/10	19/28/27		
Certifications	CE, cULus , (Group II -	cat.3 G D - zone 2/22)		

HMI HMI

VT525H





Esa Automation offers the handheld solution HMI, with different kind of communication interface, serial and CAN. The handheld HMI is connected to the field with the standard cable. In the handheld solution you find 10 programmable Soft Key. The handheld solution is customizable with a different kind of buttons on the front, and on the rear we have the three-way "operator

Possibility to have a customized product tailored on your needs.



project, software clock, 16 KB recipes, clock, 32 KB recipes, 10 mt cable 10 mt cable



VT525H HMI

with 5,7" graphic STN LCD display, 4 with 5,7" graphic 16-color STN LCD blue levels, 16 rows by 40 characters display, 16 rows by 40 characters (320 (320 x 240), Touch-Screen, 640 KB x 240), Touch-Screen, 960 KB project,

These are main features of ESA Automation handheld:

- Over 150 communication protocols for PLCs, inverters, temperature controllers and other devices.
- Fieldbuses connections to MPI and CANopen (only VT505H)
- Up to 150 pages with help, 1500 variables
- Multilanguage, including Oriental and Cyrillic characters
- Recipe handling, Alarms, 10 levels of Passwords
- Moving Graphical objects
- Unique programming software in 6 languages
- · Connection to serial printer
- 10 Function Keys
- Three-way "operator present" button
- · Mushroom-shaped start and stop button (lights up with "start")
- IP65 protection all around
- Powered by Polymath

VT505H

Display Size	5,7"			
Display Technology	S	TN		
Display Colors	4 tones of blue	16 colors		
Display Backlight	Co	CFL		
Display Resolution (pixel)	320	x 240		
Backlight life (hours)	45k	50k		
Touch Screen Matrix (cell dimension in pixels h-v)	20 x 16	G (16x15)		
Display area size (mm h-v)	115,2 :	x 86,37		
Columns by Rows/Character dimensions	Depending of	n used Font		
Contrast adjustment	Soft	ware		
Character set	Programmable fonts/TTF	Windows* (also Unicode)		
Project memory (text+graphic) (bytes)	640K	960K		
Recipes/Alarm buffer (bytes)	16K/- FLASH	32K/8K FLASH		
MSP serial port	RS-232/422/485/TTY 20 mA - o	n VTHCB (excluded CAN version)		
ASP serial port	-	RS-232 - on VTHCB (excluded CAN version)		
Integrated (option)	CAN	-		
ESA-Net (variables)	CI	ient		
Power supply (Vdc)	18	- 32		
Consumption (W)	1	0		
Operating temperature (°C)	0 + 50 (no	n condensing)		
Storage temperature (°C)	-20 + 60			
Humidity	<85% (non condensing)			
External dimensions (W/H/D) (mm)	250 x 222 x 100			
Weight (kg)	3			
Protection degree	IP 65 on all sides			
Project Languages	4	6		
Password levels/Bit passwords	10	0/8		
Pages/Fields per page	128/34	150/48		
Format of variables	DEC, HEX, BIN, BCD	, ASCII, Floating point		
Dynamic texts/Lists of images	Value depends on dime	nsions of project memory		
ISA alarms/Info-messages	-/256	256/256		
Help messages (pages/info messages/alarms)	128/256/-	150/256/256		
Alarm history buffer	-	220		
Recipes (Number/Variables per recipe)	128	/256		
Macros (Number/Commands per macro)	102	4/16		
Print pages (Total/Number of fields per page)	-	64/128		
Automatic Operations/Timers/Equations	32/3	32/32		
Max bargraphs per page (taken together with fields)	34	48		
Project images	BMP, JPEG, TIFF, PSD,	WMF, PNG, EPS, ECC		
Buttons per page	Number of buttons corresponding	to the number of Touch-Screen cells		
Hardware clock	-	Supercapacitor 72 hours		
Function keys		10		

HMI HMI

Certifications

Features

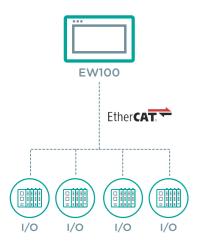






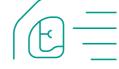
Our HMI + SoftPLC CoDeSys + Ethercat master visualization/control through remote I/O and Remote Maintenance Platform.

A solution for the control and command of any kind of industrial application. Thanks to the Ethercat Master interface it is possible to connect different devices to the external environment.



The EW100AB is complemented with Ethercat "real time" Ethernet system enabling high-performance control and communication of compatible I/O and motion control devices.





These are EW100AB main features:

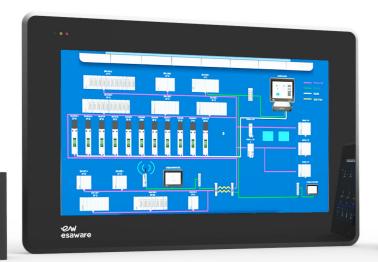
- Preloaded CoDeSys v.3.5 Runtime
- Embedded NVRam
- Watchdog Sw
- Wathcdog Hw
- Ethercat Master interface on board
- Operating System Windows Embedded Compact 7 Pro
- Preloaded Everyware runtime
- SNTP Server and Client
- Aluminum Front Side PTFE coating
- True Flat Touch Screen
- Status leds on front
- CPU Arm Cortex A8 1 GHz
- Ram DDR3
- Internal Memory 3 Gbyte
- SDHC v2.0 (up to 25 Mbyte/s)
- High Bright 16 Millions Colors Display





Features	EW104AB	EW107AB	EW112AB	EW115AB
Display Size	4,3"	7"	12,1"	15,6"
Display Technology		Т	FT	
Display Colors	262k		16M	
Display Backlight		L	ED	
Display Brightness (cd/m²)	400	600	400	300
Display Resolution (pixel)	480 x 272	800 x 480	1280 x 800	1366 x 768
Backlight life (hours)		5	0k	
Processor		ARM C	ortex A8	
RAM	256 M	B DDR3	512 MB [DDR3
Flash		3	GB	
NVRAM	32Kb (SoftPLC)			
Scan Time (µSec)	Typical 30			
Serial Ports	SP1 RS232/485-MPI-COM0 ; SP2 RS232/485-MPI-COM0 ; CAN ; Profibus			
Ethernet (Ethercat Master)	1 x 10/100Mb 2 x 10/100Mb			
USB Ports	1 x USB Host + 1 x USB Device 2 x USB Host + 1 x USB Device			
Cardbus Slot	1 x SDHC/MMC			
Power Supply (Vdc)		18	- 32	
Consumption (W)	4	7	15	19
Operating Temperature (°C)		-10 + 50 (n	on condensing)	
Storage Temperature (°C)		-20	+ 65	
Humidity		<90% (non	condensing)	
External dimensions (W/H/D) (mm)	166 x 112 x 46 (61 with double port)	202 x 142 x 46	341 x 239 x 49	437 x 286 x 54,5
Cut-out dimensions (W/H) (mm)	158,5 x 104,5	195,0 x 135,0	326,0 x 227,0	422,5 x 271,5
Weight (kg)	0,5	0,8	2,5	4,5
Protection degree (front)		IP	66	
Certifications	CE / EN60068-2-6 /		60068-2-30 / cULus (Certificate n p II - Category 3 G-D Zone 2/22	o. E189179) / EAC /

34 HMI + SoftPLC HMI + SoftPLC **35**





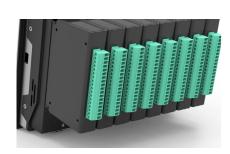




Esaware HMI + SoftPLC + I/O

Control made easy

Our HMI + SoftPLC CoDeSys + Ethercat master + I/O visualization/control through onboard I/O and Remote Maintenace Platform. The embedded complete solution for the control and command of any kind of industrial application. Thanks the EW600 I/Os it is possible to create extremely flexible configurations.



With the addition of an integrated I/O backplane and Esaware EW600 local I/O, the EW100AC is the complete automation control system. The EW100AC "all in one" solution can be expanded with Ethercat "real time" distributed I/O, delivering ultimate flexibility and efficiency.

These are EW100AC main features:

- Backplane for EW600 I/O
- Preloaded CoDeSys v.3.5 Runtime
- Embedded NVRam
- Watchdog Sw
- Watchdog Sw
 Wathcdog Hw
- Ethercat interface on board
- Operating System Windows Embedded Compact 7 Pro
- Preloaded Everyware runtime
- SNTP Server and Client
- Aluminum Front Side PTFE coating
- True Flat Touch Screen
- Status leds on front
- CPU Arm Cortex A8 1 GHz
- Ram DDR3
- Internal Memory 3 Gbyte
- SDHC v2.0 (up to 25 Mbyte/s)
- High Bright 16 Millions Colors Display



Features	EW104AC	EW107AC	EW112AC	EW115AC
Display Size	4,3"	7"	12,1"	15,6"
Display Technology		TF	T	
Display Colors	262k		16M	
Display Backlight		LE	:D	
Display Brightness (cd/m²)	400	600	400	300
Display Resolution (pixel)	480 x 272	800 x 480	1280 x 800	1366 x 768
Backlight life (hours)		50)k	
Processor		ARM Co	ortex A8	
RAM	256 M	IB DDR3	512 MB [DDR3
Flash		30	GB .	
I/O Slot	4	8	12	16
NVRAM	32Kb (SoftPLC)			
Scan Time (µSec)	Typical 30			
Serial Ports	SP1 RS232/485-MPI-COM0 ; SP2 RS232/485-MPI-COM0 ; CAN ; Profibus			us
Ethernet (Ethercat Master)	1 x 10/100Mb		2 x 10/100Mb	
USB Ports	1 x USB Host + 1 x USB Device 2 x USB Host + 1 x USB Device			x USB Device
Cardbus Slot	1 x SDHC/MMC			
Power Supply (Vdc)		18 -	- 32	
Consumption (W)	4	7	15	19
Operating Temperature (°C)		-10 + 50 (no	on condensing)	
Storage Temperature (°C)		-20	. + 65	
Humidity		<90% (non o	condensing)	
External dimensions (W/H/D) (mm)	166 x 112 x 46 (61 with double port)	202 x 142 x 46	341 x 239 x 49	437 x 286 x 54,5
Cut-out dimensions (W/H) (mm)	158,5 x 104,5	195,0 x 135,0	326,0 x 227,0	422,5 x 271,5
Weight (kg)	0,5	0,8	2,5	4,5
Protection degree (front)		IP (66	
Certifications	CE / EN60068-2-6 /	EN60068-2-27 / Humidity EN60 Directive 94/9/EC Atex Group	0068-2-30 / cULus (Certificate n II - Category 3 G-D Zone 2/22	o. E189179) / EAC /

HMI + SoftPLC HMI + SoftPLC 37







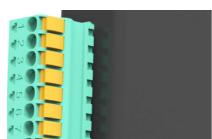




Esaware I/O modules complete our HMI EW100AC series, giving you the ability to fully command and control all of your applications.

All EW600 I/Os are modular, which means that it is possible to create different configurations depending on your needs. They have been designed to guarantee excellent ergonomics and to be extremely easy to install. In fact, they offer a fast cabling system with cage clamps and can be cabled just by extracting the connectors. In addition, Esaware I/O modules are configurable via software without any dip switch or any other kind of hardware configuration.









Digital I/O - EW600B

Mixed opto-isolated input and output modules to prevent signal from suffering due to high voltages, by isolating the circuits using a LED and a receiver. That is why opto-isolators are the best solution to secure control over your plant at any time.

EW600B08B04 8 Digital Input + 4 Digital Output

Supply Voltage (Vdc)	24
Isolation	Optoisolated
Input Numbers	8
Input Type	PNP, NPN
Output Numbers	4
Output Type	PNP (300 mA/output)
Operating Temperature (°C)	-10 + 50 (non condensing)
Storage Temperature (°C)	-20 + 65
Humidity	<90% (non condensing)
External dimensions (W/H/D) (mm)	96 x 72 x 20
Protection Degree	IP 20
Certifications	CE / EN60068-2-6 / EN60068-2-27 / Humidity EN60068-2-30 / cULus (Certificate no. E189179) / EAC / Directive 94/9/EC Atex Group II - Category 3 G-D Zone 2/22 (Mounted on EW100AC)



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Analog I/O - EW600A

Mixed input and output modules to manage analog signals produced by the field and to regulate all actuators. Thanks to a powerful signal-processing unit, they guarantee high precision control.

EW600A03A02 3 Analog Input + 2 Analog Output

Supply Voltage (Vdc)	24
Input Numbers	3
Input Type	0 / 5 V, 0 / 10 V, +10 / -10 V, 0 / 20 mA, 4 / 20 mA
Output Numbers	2
Output Type	0 / 5 V, 0 / 10 V, +10 / -10 V, 0 / 20 mA, 4 / 20 mA
Resolution	16 Bit
Operating Temperature (°C)	-10 + 50 (non condensing)
Storage Temperature (°C)	-20 + 65
Humidity	<90% (non condensing)
External dimensions (W/H/D) (mm)	96 x 72 x 20
Protection Degree	IP 20
Certifications	CE / EN60068-2-6 / EN60068-2-27 / Humidity EN60068-2-30 / cULus (Certificate no. E189179) / EAC / Directive 94/9/EC Atex Group II - Category 3 G-D Zone 2/22 (Mounted on EW100AC)

Thermocouples Input - EW600D

Input modules for thermocouples sensors with internal or external cold junctions. Thanks to the powerful signal-processing unit, they guarantee very high resolution.

EW600D06N00 6 Thermocouple Input

Input Numbers	6
Input Type	K/J/E/T/N/B/R/S
Resolution (°C)	+ 0,1 / - 0,1
Cold Junction	Internal and External
Operating Temperature (°C)	-10 + 50 (non condensing)
Storage Temperature (°C)	-20 + 65
Humidity	<90% (non condensing)
External dimensions (W/H/D) (mm)	96 x 72 x 20
Protection Degree	IP 20
Certifications	CE / EN60068-2-6 / EN60068-2-27 / Humidity EN60068-2-30 / EAC / Directive 94/9/EC Atex Group II - Category 3 G-D Zone 2/22 (Mounted on EW100AC)

High Speed Input - EW600C

Opto-isolated input modules for fast signal input or fast counter up to 100 KHz.

EW600C02N00 2 High Speed Input

Supply Voltage (Vdc)	24
Input Numbers	2
Input Type	Incremental Pulse / Differential Phase (4x) / Up/Down / Pulse + Direction (5-30 Vdc)
Isolation	Optoisolated
Frequency (KHz)	100
Operating Temperature (°C)	-10 + 50 (non condensing)
Storage Temperature (°C)	-20 + 65
Humidity	<90% (non condensing)
External dimensions (W/H/D) (mm)	96 x 72 x 20
Protection Degree	IP 20
Certifications	CE / EN60068-2-6 / EN60068-2-27 / Humidity EN60068-2-30 / EAC / Directive 94/9/EC Atex Group II - Category 3 G-D 7 one 2/22 (Mounted on EWI00AC)

Thermoresistances Input - EW600E

Input modules for thermoresistance sensors. Thanks to the powerful signal-processing unit, they guarantee very high resolution.

EW600E04N00 4 Resistance Thermometer Input

Input Numbers	4
Input Type	Pt100 / Pt200 / Pt500 / Pt1000 / Ni100 / Ni1000
Resolution (°C)	+ 0,1 / - 0,1
Operating Temperature (°C)	-10 + 50 (non condensing)
Storage Temperature (°C)	-20 + 65
Humidity	<90% (non condensing)
External dimensions (W/H/D) (mm)	-10 + 50 non condensing
Storage Temperature (°C)	-20 + 65
Humidity	<90% (non condensing)
External dimensions (W/H/D) (mm)	96 x 72 x 20
Protection Degree	IP 20
Certifications	CE / EN60068-2-6 / EN60068-2-27 / Humidity EN60068-2-30 / EAC / Directive 94/9/EC Atex Group II - Category 3 G-D Zone 2/22 (Mounted on EW100AC)

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OUTPUT MODULES

Digital I/O - EW600B

Mixed optoisolated input and output modules to prevent signal from suffering due to high voltages, by isolating the circuits using a LED and a receiver. That is why optoisolators are the best solution to secure control over your plant at any time.

EW600B08B04 8 Digital Input + 4 Digital Output

Supply Voltage (Vdc)	24
Isolation	Optoisolated
Input Numbers	8
Input Type	PNP, NPN
Output Numbers	4
Output Type	PNP (300 mA/output)
Operating Temperature (°C)	-10 + 50 (non condensing)
Storage Temperature (°C)	-20 + 65
Humidity	<90% (non condensing)
External dimensions (W/H/D) (mm)	96 x 72 x 20
Protection Degree	IP 20
Certifications	CE / EN60068-2-6 / EN60068-2-27 / Humidity EN60068-2-30 / cULus (Certificate no. E189179) / EAC / Directive 94/9/EC Atex Group II - Category 3 G-D Zone 2/22 (Mounted on EW100AC)

High Speed Output - EW600N

High speed output modules to command signals up to 300 KHz.

EW600N00C04 4 High Speed Output

Supply Voltage (Vdc)	24
Output Numbers	4
Isolation	Optoisolated
Output Type	CW/CCW - Pulse+Direction 12 - 32VDc push-pull
Output Current (mA)	5 - 10
Resolution (Hz - KHz)	200Hz - 300KHz
Operating Temperature (°C)	-10 + 50 (non condensing)
Storage Temperature (°C)	-20 + 65
Humidity	<90% (non condensing)
External dimensions (W/H/D) (mm)	96 x 72 x 20
Protection Degree	IP 20
Certifications	CE / EN60068-2-6 / EN60068-2-27 / Humidity EN60068-2-30 / EAC / Directive 94/9/EC Atex Group II - Category 3 G-D Zone 2/22 (Mounted on EW100AC)

Analog I/O - EW600A

Mixed opto-isolated input and output modules to prevent signal from suffering due to high voltages, by isolating the circuits using a LED and a receiver. That is why opto-isolators are the best solution to secure control over your plant at any time.

EW600A03A02 3 Analog Input + 2 Analog Output

Supply Voltage (Vdc)	24
Input Numbers	3
Input Type	0 / 5 V, 0 / 10 V, +10 / -10 V, 0 / 20 mA, 4 / 20 mA
Output Numbers	2
Output Type	0 / 5 V, 0 / 10 V, +10 / -10 V, 0 / 20 mA, 4 / 20 mA
Resolution	16 Bits
Operating Temperature (°C)	-10 + 50 (non condensing)
Storage Temperature (°C)	-20 + 65
Humidity	<90% (non condensing)
External dimensions (W/H/D) (mm)	96 x 72 x 20
Protection Degree	IP20
Certifications	CE / EN60068-2-6 / EN60068-2-27 / Humidity EN60068-2-30 / cULus (Certificate no. E189179) / EAC / Directive 94/9/EC Atex Group II - Category 3 G-D Zone 2/22 (Mounted on EW100AC)

PWM (Pulse with modulation) Output - EW600N

PWM output modules to command signals up to 300 KHz.

EW600N00E04 4 PWM Output

Supply Voltage (Vdc)	24
Output Numbers	4
Isolation	Optoisolated
Output Type	PWM - 12 - 32 Vdc push-pull
Output Current (mA)	5 - 10
Resolution (Hz - KHz)	200Hz - 300KHz
Operating Temperature (°C)	-10 + 50 (non condensing)
Storage Temperature (°C)	-20 + 65
Humidity	<90% (non condensing)
External dimensions (W/H/D) (mm)	96 x 72 x 20
Protection Degree	IP 20
Certifications	CE / EN60068-2-6 / EN60068-2-27 / Humidity EN60068-2-30 / EAC / Directive 94/9/EC Atex Group II - Category 3 G-D Zone 2/22 (Mounted on EW100AC)

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Remote I/O e-motion technology

Distributed I/O modules and remote AXES represents the best technical solution for anyone engaged in automation engineering, significant cost reductions can be achieved by simplifying wiring and commissioning on any machine.

Thanks to their modularity and the numerous models available you can, strategically distribute the elements to simplify and optimize the on-board machine systems.

The connection between the PAC and the modules is made via a CAN bus network on a standard CAN Open protocol, which provides noise immunity, with the consequent security of the data transmitted, and extremely fast installation.

Uncompromising remote control axes

the E1127 Can Bus Axis card is equipped with two encoder inputs with a band of 200 KHz which is fully configurable (line drivers, 5V or 12V open collector). The E1123 version allows the same performance by managing stepper motors or drives directly with Step+Dir output.

Maximum ergonomics

the vertical mounting system exclusive to ESA Automation is the most ergonomic solution on the market.

Total configurability

each E1120 bridge can fit eight ESA Automation Can Bus cards. Up to 127 E1120 bridges can be routed on one CAN channel. These are main features of Remote I/O

- Can Bus Standard Can Open DS 301 (Ds 402) profile
- 3 different layouts available (din rail / wall mounted / boxed)
- Local Risk high speed CPU
- Up to 700ma max current on digital output
- Short circuit protected digital output
- NPN/PNP configurable digital
- 5V /12 V configurable on board encoder power supply
- Line driver / Open Collector encoder type configurable on board input
- Zero (Z and Z/) input logic state configurability
- Mono/bidirectional encoder input configurability
- Up to 200 khz encoder input
- Step + Dir configurable PNP / NPN output
- Up to 65 Khz stepper output
- Drive "OK" or "Fault" separate digital input
- 5V or 12V on board configurable Step + Dir output voltage



Card CAN NODE DIN rail	BRIDGE	
Power Supply	+24Vdc power consumption 100mA	
1/0	Local BUS for expansion cards E1121, E1122, E1123, E1 124, E1127, E1191, E1192	
Dimensions	128 x93 mm	

E1121

Card 16 DIGITAL INPUTS PNP/NPN Opto for E1120	INPUT
INP Power Supply	Common with +24Vdc (NPN) or ground (PNP) in groups of 8
Inputs	The input stage is sized for a value of Vin > +15Vdc (typical +24Vdc)

E1122

Card 16 DIGITAL OUTPUTS PNP for E1120	OUTPUT
OUT Power Supply	2 common with +24Vdc, common GND with E1120
Outputs	Typical current 500mA each output, maximum 700mA in groups of 4
Protections	From short-circuit, temperature

E1123

Card 2 STEPPER AXES for E1120	STEPPER
Control Outputs	PNP +5V or +12V (Enable, DIR, Current)
STEPPER Outputs	PNP or NPN
Frequency	min 38Hz, max 65KHz
Fault Input	PNP or NPN +5V, +12V, +24V

E1124

Card 8 ANALOG INPUTS for E1120	ANALOG
POT power supply	Reference voltage + 5Vdc 5mA for external potentiometers
Inputs	Independently selectable as 0/5V - 0/10V - 0/20mA resolution 12bit

E1127

Card 2 ANALOG AXES for E1120	AXIS
ENC Power Supply	+ 12V+5V selectable separately for the 2 axes
ENCODER	Line-Driver/Open Collector (mono/bi-directional)
Analog Output	2 x +- 10V 12 bit
Frequency	Open Collector: 100Khz, Line Driver:200Khz

Layout

DIN rail Layout	DIN rail module for combination of up to 8 cards with E1120 BRIDGE
Boxed Layout	Stainless Steel module for combination of up to 3/6 CARDS with E1120 BRIDGE
Wall Mounted Layout	Wall Mounted module for combinations up to 8 cards on E1120 BRIDGE

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ESA Automation's PAC BOX Solution

The "blind" PAC is ideal for those applications that need the power of our renowned PLC, CNC, Motion Control and IT server but require external/remote visualisation. Available as either Non OS ARM based or X86 real time Windows based the Human Interface can be provided by an external application (BOX ARM) or the PAC can host HMI pages managed by standard keyboard, mouse, monitor etc. (BOX 1000)



These are main features of Pac Box

- Arm or PC Windows ® Real Time based CPU available
- Several on board digital PLC I/O*
- Up to 1200ma max current on digital output
- Short circuit protected digital output
- On board configurable 0-10V / 0-20ma 12 bit analog input*
- On board Axis input for motion Control & CNC applications *
- 5V /12 V configurable on board encoder power supply
- Line driver / Open Collector encoder type configurable on board input
- Mono/bidirectional encoder input configurability
- On board Analog and / or Step + Dir outputs for drives controls
- Up to 6 Can Bus (Can Open Ds 301-402 profile) ports for digital drives control & expansion
- Linear, Circular, Polar interpolation
- Electronic Cams Controls, Gantry Axis, Tool compensation: complete CNC functions availability
- * expandable by Esa Remote I/O system



Features

Features

Windows Real Time Based CNC System BOX 1000 BOX CNC

CPU	Intel Atom D525 Dual Core 1,86 GHz		
Main Storage memory	1, flash disks (different sizes available)		
Serial Ports	1 RS232		
Universal Serial Port Bus - USB	4, USB 2.0		
Mouse and Keyboard	1, PS/2 port		
Integrated Sound card	1 Audio port set (jack 3,5 mm for audio line output , mic input)		
Field Bus	3, CAN BUS, prot. Can Open (+3 optional)		
Lan Ethernet	1, Ethernet 10:100:1000		

Box Arm

CPU	Cortex M3 / Arm 7		
Digital input	20, PNP, with LED status indicator		
Digital outputs	20, solid state 24Vdc PNP, max current 1,2A each, divided in 3 groups (three different output supply common input) (8+8+4) with LED status indicator		
Analog inputs	6, resolution 12 bit, configurable by jumpers as 0-10V, 4-20ma		
4 Axes	4 encoder input (zero) Line Driver or Open Collector/Push Pull, voltage 12 or 5V (configurable by jumper) (bandwidth: 1,5 Mhz) - 4 analog output +-10V 12 bit - 4 PWM output or 4 stepper outputs (step + direction)		
Main Flash storage memory	1, removable SD Flash 1 GB		
Serial Ports	3,2 RS232 +1 RS485		
Lan Ethernet - Teleservice	1, Ethernet TCP/IP - FTP compatible - Modbus/TCP server, with remote desktop function		
Serial ports	2, 1 RS232 +1 RS485		
Lan Ethernet - Teleservice	1, Ethernet TCP /IP - FTP compatible - Modbus/TCP server, with remote desktop function		
Universal Serial Bus Port - USB	1, USB 2.0 for pen drive		
Field Bus	2, CAN BUS MASTER, Can Open protocol		
Real Time Clock (RTC)	1, Real Time Clock : 24 hours with SCHEDULER (real calendar)		



PAC PAC







ESA Automation offers PAC Touch Solutions ARM based.

The most complete range of "ALL IN ONE "PAC controls. Starting from the little 4,3" to the bigger, 15" touch screen display, discover our famous, powerful PLC, HMI, MOTION CONTROL, CNC and IT server in only one instrument. Discover the adavantages of writing A SINGLE APPLICATION grouping together the PLC CYCLE, CNC and HMI INTERFACE. You'll find the right hardware solution to improve your machine.

All our system can be connected to our complete range of CAN Open Expansions boards, to increase the I/O and Axis integrated equipment.

These are main features of Pac Touch

- Arm or PC Windows ® Real Time Fanless based CPU available
- 4,3" 5,7" 7" 8,4", 10", 12", 15" on board display available
- Easily customizable front panels
- Several on board digital PLC I/O*
- Up to 1200ma max current on digital output
- Short circuit protected digital output
- On board configurable 0-10V / 0-20ma 12 bit analog input*
- On board Axis input for Motion Control & CNC applications *
- 5V /12 V configurable on board encoder power supply
- Mono/bidirectional encoder input
- configurability
 Line driver / Open Collector encoder type configurable on
- On board Analog and / or Step + Dir outputs for drives controls
- Up to 6 Can Bus (Can Open Ds 301-402 profile) ports for digital drives control & expansion
- Linear, Circular, Polar interpolation
- Electronic Cams Controls,
 Gantry Axis , Tool compensation:
 all complete CNC functions
 availability
- Ready to use applications availability for several industrial branches
- Large flash memory data storage capability for powerful data logging applications

* expandable by Esa Remote I/O system



Main CPU	CPU Arm 7	
Touch Screen Display	4,3" Color, resolution 480x272	
Digital inputs*	16, 24Vdc, PNP with led	
Digital Outputs	16, solid state, 24Vdc, PNP, 1,2Amp each with led	
Configurable I/O	2, configurable by external jumpers as: 2 analog output ±10V - resolution 14 16 bit or: 2 STEPPER+DIR (12V push pull - max 1 Mhz) or: 2 Analog Inputs 14 bit - 0-3,3V	
Encoder inputs	2 encoder inputs settable as Line driver or open collector, 12 or 5V encoder supply (settable by ext jumpers), 1,5 mhz bandwidth	
Analog outputs	2, ± 10V	
Analog intputs	2, 0-3,3V (0-10V or 0-20ma can be obtained with external resistors)	
Main Flash storage memory	1, removable SD Flash min 1 GB	
Serial ports	2, RS232	
Lan Ethernet - Teleservice	1, Ethernet TCP /IP - Ftp compatible - Modbus/TCP server, with remote desktop function	
Universal Serial Bus - USB	1, USB 2.0 for pen drive	
Field Bus	1, CAN BUS MASTER , Can Open protocol	
Real Time Clock (RTC)	1, Real Time Clock : 24 hours with SCHEDULER (real calendar)	

Features TS804L Visual PLC + CNC TS804LX Visual PLC + CNC

Main Cpu	CPU Arm 7		
Touch Screen Display	4,3" Color, resolution 480x272		
Digital inputs	4, 24Vdc, PNP 8, 24Vdc, PNP*		
Digital outputs	4, solid state, 24Vdc, PNP, 1,2Amp each	8, solid state, 24Vdc, PNP, 1,2Amp each	
Configurable I/O	- 4, configurable as digital inputs 24VDC or outputs		
Analog inputs	4, configurable by jumper as 0-20ma, 0-10V - 0-3,3V 4, configurable by jumper as 0-20ma, 4-20ma, 0 are configurable for direct input thermoresistance		
Analog outputs	2, configurable as 0-20mA o 0-10V ou PWM / Step- per (to be specified before purchasing)	2, configurable as 0-20mA or ±10V or PWM	
Main Flash storage memory	1, removable SD Flash 1 GB		
Encoder inputs	1 Input Line driver , Push Pull or Open Collector - 150 Khz bandwidth	2 inputs PNP Open Collector (on inputs 5-8 digital) - bandwidth 200 Khz	
Serial ports	3, 2 RS 232 +1 RS 485	2, 1 RS 232 +1RS 485	
Lan Ethernet - Teleservice	1, Ethernet TCP /IP - Ftp compatible - Modbus/TCP server, with remote desktop function		
Universal Serial Bus - USB	1, USB 2.0 for pen drive		
Field Bus	1, CAN BUS MASTER, Can Open protocol		
Real Time Clock (RTC)	1, Real Time Clock: 24 hours with SCHEDULER (real calendar)		

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Features TS680 ARM Visual Plc + CNC

CPU Cortex M3 - Arm 7 **Touch Screen Display** 5,7" LED color, resolution 320x240 Digital inputs 20, PNP, with LED status indicator 20, solid state 24Vdc PNP, max current 1,2A each, divided in 3 groups (three different output supply common input) (8+8+4) with LED status indicator Digital outputs 6, resolution 12 bit, configurable by jumpers as 0-10V, 4-20ma **Analog inputs** 4 encoder input (zero) Line Driver or Open Collector/Push Pull, voltage 12 or 5V (configurable by jumper) (bandwidth: 1,5 Mhz) - 4 analog output +-10V 12 bit - 4 PWM output or 4 stepper outputs (step + direction) 4 Axes Main Flash storage memory 1, removable SD Flash 1 GB 3, 2 on standard RS 232 + 1on standard RS 485 Serial ports Lan Ethernet - Teleservice 1, Ethernet TCP /IP - FTP compatible - Modbus/TCP server, with remote desktop function Universal Serial Port Bus - USB 1, USB 2.0 for pen drive 2, CAN BUS MASTER, Can Open protocol Field Bus 1, Real Time Clock : 24 hours with SCHEDULER (real calendar) Real Time Clock (RTC)

Features TS690 ARM Visual Plc + CNC

CPU	Cortex M3 - Arm 7		
Touch Screen Display	10,4" - color, 800x600 resolution		
Digital inputs	20, PNP, with LED status indicator		
Digital outputs	20, solid state 24Vdc PNP, max current 1,2A each, divided in 3 groups (three different output supply common input) (8+8+4) with LED status indicator		
Analog inputs	6, resolution 12 bit, configurable by jumpers as 0-10V, 4-20ma		
4 Axes	4 encoder input (zero) Line Driver or Open Collector/Push Pull, voltage 12 or 5V (configurable by jumper) (bandwidth: 1,5 Mhz) - 4 analog output +-10V 12 bit - 4 PWM output or 4 stepper outputs (step + direction)		
Main Flash storage memory	1, removable SD Flash 1 GB		
Serial ports	3, 2 on standard RS 232 + 1on standard RS 485		
Lan Ethernet - Teleservice	1, Ethernet TCP /IP - Ftp compatible - Modbus/TCP server, with remote desktop function		
Universal Serial Port Bus - USB	1, USB 2.0 for pen drive		
Field Bus	2, CAN BUS MASTER , Can Open protocol		
Real Time Clock (RTC)	1, Real Time Clock : 24 hours with SCHEDULER (real calendar)		

Features TS970 ARM Visual PIc + CNC

CPU	Cortex M3 / Arm 7		
Display Touch Screen	7" LED color, 800x480 resolution		
Digital inputs	20, PNP, with LED status indicator		
Digital outputs	20, solid state 24Vdc PNP, max current 1,2A each, divided in 3 groups (three different output supply common input) (8+8+4) with LED status indicator		
Analog inputs	6 , resolution 12 bit, configurable by jumpers as 0-10V, 4-20ma		
4 Axes	4 encoder input (zero) Line Driver or Open Collector/Push Pull, voltage 12 or 5V (configurable by jumper) (bandwidth: 1,5 Mhz) - 4 analog output +-10V 12 bit - 4 PWM output or 4 stepper outputs (step + direction)		
Main Flash storage memory	1, removable SD Flash 1 GB		
Serial ports	3, 2 in standard RS 232 + 1 in standard RS 485		
Lan Ethernet - Teleservice	1, Ethernet TCP /IP - Ftp compatible - Modbus/TCP server, with remote desktop function		
Universal Serial Port Bus - USB	1, USB 2.0 for pen drive		
Field Bus	2, CAN BUS MASTER, Can Open protocol		
Real Time Clock (RTC)	1, Real Time Clock : 24 hours with SCHEDULER (real calendar)		

Features TS7002 ARM Visual Plc + CNC

СРИ	Cortex M3 / Arm 7		
Touch Screen Display	12" LED color, resolution 800x600		
Digital inputs	20, PNP, with LED status indicator		
Digital outputs	20, solid state 24Vdc PNP, max current 1,2A each, divided in 3 groups (three different output supply common input) (8+8+4) with LED status indicator		
Analog inputs	6, resolution 12 bit, configurable by jumpers as 0-10V, 4-20ma		
4 Axes	4 encoder input (zero) Line Driver or Open Collector/Push Pull, voltage 12 or 5V (configurable by jumper) (bandwidth: 1,5 Mhz) - 4 analog output +-10V 12 bit - 4 PWM output or 4 stepper outputs (step + direction)		
Main Flash storage memory	1, removable SD Flash 1 GB		
Serial ports	3, 2 on standard RS 232 + 1on standard RS 485		
Lan Ethernet - Teleservice	1, Ethernet TCP/IP - FTP compatible - Modbus/TCP server, with remote desktop function		
Universal Serial Port Bus - USB	1, USB 2.0 for pen drive		
Field Bus	2, CAN BUS MASTER, Can Open protocol		
Real Time Clock (RTC)	1, Real Time Clock: 24 hours with SCHEDULER (real calendar)		

Features TS7002RT Windows Real Time Based CNC System

CPU	Intel Atom D525 Dual Core 1,86 GHz		
Touch Screen Display	12" 4:3 color, resolution 800x480 (Optional: 1024x768)		
Main Storage memory	1, flash disks (different sizes available)		
Serial Ports	1 RS 232		
Universal Serial Port Bus - USB	4, USB 2.0		
Mouse and Keyboard	1, PS/2 port		
Integrated Sound card	1 Audio port set (jack 3,5 mm for audio line output , mic input)		
Field Bus	3, CAN BUS, Can Open protocol (+3 optional)		
Lan Ethernet	1, Ethernet 10:100:1000		

Features TS7005RT Windows Real Time Based CNC System

CPU	Intel Atom D525 Dual Core 1,86 GHz		
Display Touch Screen	12" 4:3 color, resolution 1024x768		
Main Storage memory	1, flash disks (differect sizes avilable)		
Serial Ports	1 RS 232		
Universal Serial Port Bus - USB	4, USB 2.0		
Mouse and Keyboard	1, PS/2 port		
Integrated Sound card	1 Audio port set (jack 3,5 mm for audio line output , mic input)		
Field Bus	3, CAN BUS, Can Open protocol (+3 optional)		
Lan Ethernet	1, Ethernet 10:100:1000		

PAC PAC 51





ESA Automation offers a keyboard solution

PAC TEXT is a Non OS ARM based fully integrated PLC, HMI, MOTION CONTROL, CNC and IT server for those that want the benefits of a hard keyboard for data entry. Providing superior • gloved hand operation and faster data entry when necessary, PAC TEXT is ideal for heavy industries, wood working machinery.



These are main features of Pac Box

- Arm Cpu Based
- 5,7" on board display
- 32 keys with 5 programmable function keys
- Customizable front panel layout
- Esa "You Tool" integrated development tool for your HMI + PLC + CN "ALL IN ONE" programming
- Several on board digital PLC 1/0*
- Up to 1200ma max current on digital output, with over current thermal protection
- On board configurable 0-10V / 0-20ma 12 bit analog input*
- On board Axis input for Motion Control & CNC applications *
- 5V /12 V configurable on board encoder power supply
- Line driver / Open Collector encoder type configurable on board input
- On board Analog and / or Step + Dir outputs for drives controls
- Up to 2 Can Bus (Can Open Ds 301 -402 profile) ports for digital drives control & expansion
- Large flash memory data storage capability for powerful data logging applications

* expandable by Esa Remote I/O system



EC909 ARM Visual Plc + CNC

Features

CPU	Arm 7
Display	5,7" LED color, 320x240 resolution
Keyboard	32 keys
Digital inputs	20, PNP, with LED status indicator
Digital outputs	20, solid state 24Vdc PNP, max current 1,2A each, divided in 3 groups (three different output supply common input) (8+8+4) with LED status indicator
Analog inputs	6, resolution 12 bit, configurable by jumpers as 0-10V, 4-20ma
4 Axes	4 encoder input (zero) Line Driver or Open Collector/Push Pull, voltage 12 or 5V (configurable by jumper) (bandwidth: 1,5 Mhz) - 4 analog output +-10V 12 bit - 4 PWM output or 4 stepper outputs (step + direction)
Main Flash storage memory	1, removable SD Flash 1 GB
Serial ports	3, 2 in standard RS232 +1 in standard RS485
Lan Ethernet - Teleservice	1, Ethernet TCP /IP - Ftp compatible - Modbus/TCP server, with remote desktop function
Universal Serial Bus Port - USB	1, USB 2.0 for pen drive
Field Bus	2, CAN BUS MASTER, Can Open protocol
Real Time Clock (RTC)	1, Real Time Clock : 24 hours with SCHEDULER (real calendar)

PAC PAC









Esaware Web Panel Browser-based efficient control

Esaware Web Panel comes in two operating system variants, depending on the type of application.

The first solution EW100AD is based on the Android operating system and allows you to install native applications developed by the user.

The second solution EW100BD is based on the Linux operating system, and includes a serial port RS232/485 that can be used by any application user.

Both variants provide you with a compatible browser with HTML5 and Web Socket, ideal for displaying any Web content.

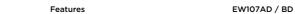
Depending on your application Esaware Web Panel is available with two Operating System (OS) variants.

These are EW100AD main features:

- Linux Yocto Operating System or Android
- Chromium browser
- SNTP Server and Client
- Aluminum Front Side
- PTFE coating
- True Flat Touch Screen
- CPU Arm Cortex A9 Quad Core
- Ram DDR3L
- Internal Memory 8 Gbyte
- SDHC v2.0 (up to 25 Mbyte/s)
- High Bright 16 Millions Colors Display
- Wi-Fi and 3G







Resistive Capacitive Web Panel for Thin Client Application

Features	EW107AD / BD	EW112AD / BD	EW115AD / BD
Display Size	7"	12,1"	15,6"

Diopidy City		,.	10,0	
Display Technology	TFT			
Display Colors		16M		
Display Backlight		LED		
Display Brightness (cd/m²)	500	0 400 30		
Display Resolution (pixel)	1024x600	1280 x 800	1366 x 768	
Backlight life (hours)		50k		
Touch Technology		Resistive (AD) - Capacitive (BD)		
Processor	ARM Cortex A9 Quad-Core			
RAM	4 GB DDR3L			
Flash	8 GB			
Ethernet	2 x 1 GB			
USB Ports	2 x vers. 2.0			
Serial Port (Only Linux Version)		RS 232/485		
Expansion Slot		1 x MINI PCI express		
Cardbus Slot		1 x SDHC		
Power Supply (Vdc)		12 - 32		
Consumption (W)	7	15	19	
Operating Temperature (°C)		-10 + 50 (non condensing)		
Storage Temperature (°C)		-20 + 65		
Humidity		<90% (non condensing)		
External dimensions (W/H/D) (mm)	192 x 132 x 32	341 x 329 x 32	437 x 286 x 32	
Cut-out dimensions (W/H) (mm)	185,0 x 125,0	326,0 x 227,0	422,5 x 271,5	
Weight (kg)		2,5	4,5	

CE / EN60068-2-6 / EN60068-2-27 / Humidity EN60068-2-30

WEB PANEL WEB PANEL

Protection degree (front)

Certifications





Design your own performance

The EW200 Panel IPC line satisfies the latest market and application requirements, thanks to new technological features such as LCD 16:9 widescreen display and resistive and capacitive touchscreen. Esaware Panel IPCs come in different sizes, from 12,1" to 21,5", and have been designed to work flawlessly in any situation.

Our unique Twist design and the PTFE non-stick coating prevent dust and dirt accumulation on the bezel, making it ideal for industrial environments.

Esaware Panel IPC's offer a comprehensive choice of options and configurations while maintaining high performance and lasting reliability.



SLIM version CPUs 4th generation FANLESS USB 3.0 2 independent LANs



MITX version.
Variety of Atom and i-core CPUs
FANLESS and FAN
Accessible dual slot bay 2,5"
2 independent LANs
PCI / PCIe Slot

These are EW200 Panel IPC MITX main features:

- SDRAM with DDR3 technology, less consumption but faster than DDR2
- Connection device on SATA 3.0, transfer baud rate up to 6.0 Gb/s.
- PCI /PCIe slot available
- Embedded and long availability Intel processors, based on 3rd and 4th Generation
- LCD wide-screen with LED backlit, 40% extra display surface

These are EW200 Panel IPC SLIM main features:

- Extremely reduced depth for CPU module.
- Intel Baytrail and Intel Haswell platforms, both fanless
- Embedded and long delivery 4th generation CPUs, engineered for high performances and low consumption
- CPUs Celeron J1900 quad core, Intel i3-4010U and Intel i7-4650U dual core, significantly increasing the overall performance
- New SoC technology (System-on-Chip): better performance with less components
- Enhanced embedded graphics with API directX 11.1
- RAM DDR3L, USB 3.0, 2 Intel® LANs



Features	EW212	EW215	EW218	EW222	
Display Size	12,1"	15,6"	18,5"	21,5"	
Display Technology		TFT /	16,7 M		
Display Brightness (cd/m²)	400		300		
Contrast	1000	500	1000	5000	
Viewing Angle	88/88/88/88	85/85/85/85	85/85/80/80	89/89/89/89	
Display Resolution (pixel)	1280x800	1360	6x768	1920x1080	
Backlight life (hours)		50k			
Touch Technology	Resistive (5 wires) / Capacitive (PCT 10 touches)				
Bezel /Chassis		Aluminum with PTFE non-	sticking coating / Sheet Steel		
CPU Fanless Atom		Atom dual core	N2800 1,86 GHz		
CPU Fan Intel® Core™	In	tel Core i3-3120ME 2,4GHz/ i5-3	3610ME 2,7GHz/ i7-3610QE 2,3	GHz	
Chipset		NM10 Atom	/ QM67 iCore		
GPU embedded	GMA3650 650MHz / HD Graphics - 4000				
RAM (Atom dual core)	up to 4GB DDR3 SODIMM 1066MHz 204 pin				
RAM (Fan Intel® Core™)	up to 16GB DDR3 SODIMM 1333/1600MHz 204 pin				
RS232 / RS485	2x RS232 + 1x RS232-422-485				
USB Port IP66 front	1x no capacitive				
USB Ports 2.0/3.0 rear	4x/0x ATOM/Intel®Core™ (fan)				
Ethernet (Atom dual core)		2x 1Gb RJ4	5 Intel 82574L		
Ethernet (Fan I-Core™)	2x 1Gb RJ45 Intel 82579/RTL8111				
VGA/DVI-D (Atom dual core)	1x / 1x (dimmable LCD backlit)				
VGA/DVI-D (Fan Intel® Core™)	1x / 1x				
Audio - PS2	1x Mic + Line in/out - Mouse/Keyboard				
CFast slot		1 x external	accessible slot		
Mechanical Slot (optional)		1x PCIe x1 - 1x miniPCIe	e - 1x PCIe x16 - 1x PCI		
Drives - RAID 0/1		HDD min. 500GB / SSD min. 16	GGB / CFast min. 4GB - Option	ı	
Power Supply (Vdc)		1830 (25V	V-15" basic)		
Consumption (W)		25	- 65		
Operating Temperature (°C)		-10 + 50 (non condensing)		
Storage Temperature (°C)		-20	+ 65		
Humidity		85% (non co	ondensing)		
External dimensions (W/H/D) (mm)	341x239x86	437x286x86	504x325x89	572x363x89	
Cut-out dimensions (W/H) (mm)	326,0x227,0	326,0x227,0 422,5x271,5 486,5x307,5 554,5x345,5			
Weight (kg)	4,5 6 8,5 10,5				
Operating systems		WIN7 -	WES7		
Protection degree (front)		IP6	66		
Certifications CE - EN61000-6-2 / EN61	Certifications CE - EN61000-6-2 / EN61000-6-4 / EN60068-2-6/27/30 / cULus (Certificate no. E189179) / EAC / Atex Group II - Category 3 G-D Zone 2/22				



EW200 SLIM

Features	EW212	EW215	EW218	EW222
Display Size	12,1"	15,6"	18,5"	21,5"
Display Technology		TFT /	16,7 M	
Display Brightness (cd/m²)	400		300	
Contrast	1000	500	1000	5000
Viewing Angle	88/88/88/88	85/85/85/85	85/85/80/80	89/89/89/89
Display Resolution (pixel)	1280x800	1366	×768	1920x1080
Backlight life (hours)		50)k	
Touch Technology		Resistive (5 wires) / Cap	pacitive (PCT 10 touches)	
Bezel /Chassis	Aluminum with PTFE non-sticking coating / Sheet Steel			
CPU Fanless Celeron	Celeron quad core J1900 2,0 GHz (2,42GHz) - 10W			
CPU Fanless Intel* Core™	Intel Core i3-4010U 1,7GHz / i7-4650U 1,7GHz (3,3GHz) - 15W			
Chipset	SoC			
GPU embedded Celeron J1900	HD Graphics			
GPU embedded i-core i3-4010U	HD Graphics 4400			
GPU embedded i-core i7-4650U	HD Graphics 5000			
RAM (Celeron core)	on board 4GB DDR3L 1066/1333MHz - dual channel			
RAM (Intel* Core™)	up to 8GB DDR3L SODIMM 1333/1600MHz 204 pin -single channel			
RS232 / RS485	1x RS232 + 1x RS485			
USB Port IP66 front		1x - no ca	pacitive -	
USB Ports 2.0/3.0 rear		1x 2.0 + 1x 3.0 CPU J1900	/ 4x 3.0 CPU Intel®Core™	
VGA/DP (Celeron J1900)		1x / 1x (DP passi	ve cable required)	
DP (i-Core™ i3/i7)		2x (DP active	cable required)	
RAID 0/1		2x SSD on CPU i-core /	2x mSATA on CPU J1900	
Expansion Slot		1x miniPCle CPU J1900	0 / 2x miniPCle CPU i-core	
Drives externally accessible		HDD min. 500GB / SSD min. 16	GB / CFast min. 4GB - Options	
Power Supply (Vdc)		1536 (25)	N-15" basic)	
Operating Temperature (°C)		-10 + 50 (no	on condensing)	
Storage Temperature (°C)		-20	+ 65	
Humidity		90% (non co	ndensing)	
External dimensions (W/H/D) (mm)	341x239x64	437x286x64	504x325x67	572x363x67
Cut-out dimensions (W/H) (mm)	326,0x227,0	422,5x271,5	486,5x307,5	554,5x345,5
Weight (kg)	4,5	6	8,5	10,5
Operating Systems		WIN7 - WES	7 - WIN8.1	
Protection degree (front)		IP66	5	



Industrial PC Configuration Tool

ESA Automation has equipped its entire sales network with the ingenious PC Configuration Tool. As a result, after consultation with the customer, ESA Automation sales engineer can provide a "tailor-made" quotation that generates a unique IPC code. The whole process from initial customer contact to providing the quotation is quick, efficient and above all provides a detailed product specification for every customer request.





ESA Automation XS7 industrial PC family offers a complete range of Panel PCs based on different CPUs: Intel iCore i3, i5 and i7, Intel Atom Dual Core and Intel Celeron Quad Core that can meet any automation requirement.

Precise design, quality components and mechanical strength, combined with configuration flexibility make XS7 the perfect IPC solution for harsh environments, including those with high concentrations of dust, severe vibrations or high temperatures.

These are XS7 Panel IPC main features:

- Wide choice of LCD size and touch screens from 7" wide up to 19"
- High configuration flexibility with HDD, SSD, mSATA/CFast, PCI/PCle slot, CPU and RAM
- Elegant and precise industrial design, available with aluminum or INOX stainless steel finishing for the front bezel
- Removable HDD/SSD
- RAID function

XS7 Industrial Panel Dynamic iCore

Features XS712 XS715 XS717 XS719

Display Size	12,1" SVGA - 12,1" XGA	15"	17"	19"		
Display Technology		T	FT			
Display Colors		16,	7 M			
Display Backlight		LI	ED			
Backlight life (hours)		5	0k			
Display Resolution (pixel)	800x600 (SVGA) - 1024x768 (XGA)	1024 x 768	1280 x	1024		
Touch screen Type		Analog resis	tive (5 wires)			
CPU	Intel® Celeron I	B810 1.6GHz, Intel* iCore i3-2330	DE 2.2 GHz, i5-2510E 2.5 GHz,	i7-2710QE 2.1GHz		
Chipset		QM6	7PCH			
Graphics embedded	Intel HD Graphics - 3000					
DMI	DMI 5GT/S					
RAM		up to 16GB DDR3 SODIMM 204	oin Dual Channel 1066/1333 M	Hz		
Hard disk/SSD (opt.)		min. 500 GB SATA	A 2,5" / SSD 16 GB			
Internal Compact Flash (opt.)	1x					
External Compact Flash Slots (o	pt.) 1x					
RS232 serial port	2 x					
RS485 serial port		1x				
USB on front (2.0) IP66	1x					
USB on rear (2.0)	4 x					
Green led on front	1x					
PS/2 keyboard / mouse port	1x					
PCI Slot 1 (opt.)	1 x					
PCI Slot 2 (opt.)		1	x			
PCIe slot 16x (opt.)		1	x			
Wi-Fi card (opt.)		PC	Cle			
Video port		1 x DVI-D	+1x VGA			
Audio port		MIC IN + Line	IN + Line OUT			
Ethernet ports RJ45		2 x Ethernet 10/100/1000	Mbit Intel 82579 - RTL 8111			
External (W x H x D) (mm)	336 x 256 x 81	425 x 300 x 85,5	446 x 346 x 84	508 x 384 x 92,		
Cut-out (W x H) (mm)	321 x 240	393 x 275	426 x 326	477 x 355		
Back-up with battery		1	x			
Power supply (Vdc)	1830 max 75 W	1830 max 85 W	1830 n	nax 95 W		
Power consumption (W) (24 Vcc basic config - NO PCI CARDS)	48/58	55/65	67	/77		
Protection level		IP 66 c	n front			
Operating temperature (°C)		0+50 (non	condensing)			
Storage temperature (°C)		-20	.+65			
Humidity	90% (non condensing)					
Weight (kg)	~ 5	~ 6,5	~ 9	~ 11		
Certifications	Atex (Group II - cat.3 G D) /	/ Environment EN 60068-2-6/27	7/30 / Immunity EN 61000-6-2	2 / Emissions 61000-6-		
Optional kits						
RAID 2xHDD function			Yes			
Removable HDD/SSD			Yes			
DVD-RW Sata		Exter	nal (opt.)			
Operating system			(P Pro for Embedded			

XS7 Industrial Panel PC Fanless Atom

Features	XS7W7	XS708	XS712	XS715	XS717	XS719	
Display Size	7" Wide	8,4"	12,1" SVGA - 12,1" XGA	15"	17"	19"	
Display Technology				TFT			
Display Colors			16,7 M				
Display Backlight			LED				
Lamp life (min. at 25 °C)				50k			
Display Resolution (pixel)	800×600	800x600 (SVGA) 1024x768 (XGA)	1024 x 768	1024 x 768	1280	0 x 1024	
Touch screen Type	Analog resis	stive (4 wires)		Analog re	esistive (5 wires)		
CPU Fanless	Intel* ATOM	1,6Ghz N270		Intel® ATOM Dual	Core 1,86 GHz N2800		
Chipset	945GSE	+ ICH7M		1	NM10		
Graphics	Intel* G	MA 950		Intel*	GMA 3650		
FSB	533	MHz		DMI	2,5 GT/s		
RAM	up to 2GB DDR2 SC	DDIMM 200pin		Up to 4GB DD	R3 SODIMM 204 pin		
Hard disk / SSD (optional)			min. 500 GB SATA	2,5" / SSD 16 GB			
Compact Flash Slots Internal	(opt.)			1 x			
Compact Flash Slots External	(opt.)			1x			
RS232 serial port	1:	x			2 x		
RS485 serial port	RS485 serial port			1x			
USB on front (2.0) IP66	SB on front (2.0) IP66			1x			
USB on rear (2.0)	2	x	4 x				
Green led on front				1 x			
PCI Slot 1 (opt.)	-	-			1x		
PCI Slot 2 (opt.)	-	-			1 x		
Mini PCIe slot	intern	al 1 x		-			
PCIe slot x1 (opt.)	-	-			1 x		
Wi-Fi card (opt.)	Wi-Fi mini	pci / USB		PCI / USB / PCIe 1x			
Video port	1 x V	'GA	1xVGA	+ 1x DVI-I (single-link digita	al signal only)		
Audio port	-	•		Line-in + Line-out + Mic	:-in		
Ethernet ports RJ45			2 x Ethernet 10/100/	/1000 Mbit Intel 82574			
External (WxHxD) (mm)	228 x 155 x 80	250 x 190 x 80	336 x 256 x 81	425 x 300 x 85,5	446 x 346 x 84	508 x 384 x 92,5	
Cut-out (WxH) (mm)	219 x 145	241 x 180	321 x 240	393 x 275	426 x 326	477 x 355	
Back-up with battery				1x			
Power supply (Vdc)	1830 m	ax 50 W	1830 max 75W	1830 max 85 W	1830 r	max 95 W	
Power consumption (W) (24 basic config - NO PCI CARDS		30	36	43	5	5	
Protection level			IP 66	on front			
Operating temperature (°C)			0+50 (nor	n condensing)			
Storage temperature (°C)			-20)+65			
Humidity			90% (non	condensing)			
Weight (kg)	~ 2,5	~ 3	~ 5	~ 6,5	~ 9	- 11	
Certifications		CE, Atex (Group II -	cat.3 G D) / Environment EN 6	0068-2-6/27/30 / Immunit	y EN 61000-6-2 / Emission	ns 61000-6-4	
Optional kits							

Optional kits

RAID 2xHDD function		-		Yes
Removable HDD/SSD		-		Yes
DVD-RW Sata	-	Extern	aal (opt.)	Internal (opt.)
Operating system	WIN7 - WES	7 - WES2009 - Win* XP Pro	SP3 MUI - CE	WES2009 - Win* XP Pro SP3 MUI - WIN7 - WES7

XS7 Industrial Panel PC Fanless Celeron

Features	XS712	XS715	XS717	XS719	
Display Size	12,1" SVGA - 12,1" XGA	15"	17"	19"	
Display Technology		Т	FT		
Display Colors		16	,7 M		
Display Backlight		L	ED		
Backlight life (hours)		5	iOk		
Display Resolution (pixel)	800x600 (SVGA) - 1024x768 (XGA)	1024 x 768	1280 x 1	024	
Touch screen Type		Analog resi	stive (5 wires)		
CPU Fanless		Intel® Celeron Quad	Core 2,00 GHz J1900		
Chipset		SoC			
Graphics embedded	Intel® HD Graphics				
RAM		Up to 8GB DDR3L 1333 MHz SODIMM 204 pin			
Hard disk / SSD / mSATA (opt.)		min. 500 GB SATA 2,5" /	SSD 16 GB / mSATA 32 GB		
CFast Internal (opt.)		1x			
CFast Slots External (opt.)		1x			
RS232 serial port		2 x			
RS485 serial port	1x				
USB on front (2.0) IP66		1x			
USB on rear (2.0/3.0)		3 x +	1 x (3.0)		
PCI Slot 1 (opt.)			1 x		
PCI Slot 2 (opt.)t			1 x		
PCIe slot x1 (opt.)			1 x		
Wi-Fi card (opt.)		PCI / USB / PCIe 1x			
Video port		1xVGA + 1x DVI-D (single-link digital signal only)			
Audio port		MIC IN +	Line OUT		
Ethernet ports RJ45		2 x Ethernet 10/100	0/1000 Mbit Intel I210		
External Dimensions (WxHxD) (mm)	336 x 256 x 81	425 x 300 x 85,5	446 x 346 x 84	508 x 384 x 92,5	
Cut-out Dimensions (WxH) (mm)	321 x 240	393 x 275	426 x 326	477 x 355	
Back-up with battery			1 x		
Power supply (Vdc)	1830 max 75W	1830 max 85 W	1830 max 95 W	1830 max 95 W	
Power consumption (W) (24 Vcc basic config - NO PCI CARDS)	36	43	55	;	
Protection level		IP 66 on front			
Operating temperature (°C)		0+50 (nor	n condensing)		
Storage temperature (°C)		-20+65			
Humidity			condensing)		
Weight (kg)	- 5	~ 6,5	~ 9	- 11	
Certifications	CE, Atex (Group II - cat.3 G D)	/ Environment EN 60068-2-6/27/3	0 / Immunity EN 61000-6-2 / Emissions	61000-6-4	

Optional k

RAID 2xHDD function		Option
Removable HDD/SSD		Option
DVD-RW Sata	External (opt.)	Internal
Operating system		WIN7 - WES7 - WIN 8.1





Stainless Steel Panel IPCExtreme durability. High endurance.

ESA Automation XS7 industrial PC family is also available with bezel in Stainless Steel.

The XS7 INOX V2A stainless steel products conform to FDA 21 / EN1672-2 a meeting Food Processing, Pharma and Chemical industry safety and hygiene requirements.

ESA Automation's XS7 industrial PCs are designed, built and tested to ATEX (Zone 2/22, category 3 G/D) and EN60068-2-6/27/30 enabling these robust units to safely withstand vibration, shock and humidity expected in these severe environments.



Outward inclined INOX surface to prevent bacterial or microbial loads from depositing.

True-flat touch screen offers hygienic prevention and easy cleaning.

These are XS7 stainless steel Panel IPC main features:

- Wide choice of LCD size and touch screens from 7" wide up to 19"
- High configuration flexibility with HDD, SSD, mSATA/CFast, PCI/PCle slot, CPU and RAM
- Elegant and precise industrial design, available with aluminum or INOX stainless steel finishing for the front bezel
- True-flat touch screen front bezel
- Removable HDD/SSD
- RAID function

XS7 Panel Dynamic iCore Stainless Steel

Features XS712 XS715 XS717

Display Size	12,1" SVGA - 12,1" XGA	15"	17"			
True-flat Touch screen	No LED/USB frontal					
Display Technology		TFT				
Display Colors		16,7 M				
Display Backlight		LED				
Life (min. at 25 °C)		50k				
Display Resolution (pixel)	800x600 (SVGA) - 1024x768 (XGA)	1024 x 768	1280 x 1024			
Touch screen Type		Analog resistive (5 wires)				
CPU	Intel* Celeron B810 1.6GHz, Intel* iCore i3-2330E 2.2 GHz, i5-2510E 2.5 GHz, i7-2710QE 2.1GHz					
Chipset	QM67PCH					
Graphics embedded		Intel HD Graphics - 3000				
DMI		DMI 5GT/S				
RAM	up to 16GB DDR3 S	SODIMM 204pin Dual Channel 10	066/1333 MHz			
Hard disk/SSD (opt.)	m	in. 500 GB SATA 2,5" / SSD 16 G	SB .			
Internal Compact Flash (opt.)		1 x				
External Compact Flash Slots (opt.)	1 <i>x</i>					
RS232 serial port	2 x					
RS485 serial port	1 x					
USB on rear (2.0)	4 x					
Green led on front	1 x					
PS/2 keyboard / mouse port	1x					
PCI Slot 1 (opt.)	1 x					
PCI Slot 2 (opt.)	1x					
PCIe slot 16x (opt.)	1 x					
Wi-Fi card (opt.)		PCIe				
Video port		1 x DVI-D + 1 x VGA				
Audio port		MIC IN + Line IN + Line OUT				
Ethernet ports RJ45	2 x Ethern	et 10/100/1000 Mbit Intel 82579	- RTL 8111			
External (W x H x D) (mm)	336 x 256 x 81	425 x 300 x 85,5	446 x 346 x 84			
Cut-out (W x H) (mm)	321 x 240	393 x 275	477 x 355			
Back-up with battery		1 x				
Power supply (Vdc)	1830 max 75 W	1830 max 85 W	1830 max 95 W			
Power consumption (W) (24 Vcc basic config - NO PCI CARDS)	48/58	55/65	67/77			
Protection level		IP 66 on front				
Operating temperature (°C)		0+50 (non condensing)				
Storage temperature (°C)		-20+65				
Humidity	90% (non condensing)					
Weight (kg)	5 6,5 11					
Certifications	Atex (Group II - cat.3 G D) / Environment EN 60068-2-6/27/30 / Immunity EN 61000-6-2 / Emissions 61000-6-4					
Optional kits						
RAID 2xHDD function		Yes				
Removable HDD/SSD		Yes				
DVD-RW Sata		External (opt.)				
Operating system	WIN	7 - WES7 - XP Pro for Embedded	t e			

XS7 Panel PC Fanless Atom Stainless Steel

Features	XS7W7	XS712	XS715	XS719	
Display Size	7" Wide	12,1" SVGA - 12,1" XGA	15"	19"	
True-flat Touch screen		No LED/USB frontal			
Display Technology		TFT			
Display Colors		16,7 M			
Display Backlight		LED			
Lamp life (min. at 25 °C)		50k			
Display Resolution (pixel)	800x600	800x600 (SVGA) 1024x768 (XGA)	1024 x 768	1280 x 1024	
Touch screen Type	Analog resistive (4 wires)		Analog resistive (5 wires)	•	
CPU Fanless	Intel® ATOM 1,6Ghz N270	Intel* A	ATOM Dual Core 1,86 GHz N	N2800	
Chipset	945GSE + ICH7M	NM10			
Graphics	Intel® GMA 950	Intel* GMA 3650			
FSB	533 MHz		DMI 2,5 GT/s		
RAM u	p to 2GB DDR2 SODIMM 200pin	Up to	o 4GB DDR3 SODIMM 204	pin	
Hard disk / SSD (opt.)		min. 500 GB SATA 2,5" / SSD 16 GB			
Compact Flash Slots Internal (opt.)		1 x			
Compact Flash Slots External (opt.)		1 x			
RS232 serial port	1x		2 x		
RS485 serial port		1 x			
USB on rear (2.0)	2 x		4 x		
Green led on front		1x			
PCI Slot 1 (opt.)	-	1 x			
PCI Slot 2 (opt.)	-		1 x		
Mini PCle slot	internal 1 x		-		
PCIe slot x1 (opt.)	-		1 x		
Wi-Fi card (opt.)	Wi-Fi minipci / USB		PCI / USB / PCIe 1x		
Video port	1 x VGA	1xVGA + 1x	DVI-I (single-link digital si	ignal only)	
Audio port	-	l	Line-in + Line-out + Mic-in	l e	
Ethernet ports RJ45		2 x Ethernet 10/100/1000	Mbit Intel 82574		
External (WxHxD) (mm)	228 x 155 x 80	336 x 256 x 81	425 x 300 x 85,5	508 x 384 x 92,5	
Cut-out (WxH) (mm)	219 x 145	321 x 240	393 x 275	477 x 355	
Back-up with battery		1 x			
Power supply (Vdc)	1830 max 50 W	1830 max 75W	1830 max 85 W	1830 max 95 W	
Power consumption (W) (24 Vdc basic config - NO PCI CARDS)	30	36	43	55	
Protection level		IP 66 on fr	ont		
Operating temperature (°C)		0+50 (non con	densing)		
Storage temperature (°C)		-20+65	5		
Humidity		90% (non cond	lensing)		
Weight (kg)	~ 2,5	~ 5	~ 6,5	~ 11	
Certifications	CE, Atex (Group II - cat.3 G D) /	Environment EN 60068-2-6/27/3	0 / Immunity EN 61000-6-	-2 / Emissions 61000-6-4	
Optional kits					
RAID 2xHDD function	-		Yes		
Removable HDD/SSD	-		Yes		
DVD-RW Sata	-	External (opt.)	Interna	al (opt.)	

Operating system WIN7 - WES7 - WES2009 - Win* XP Pro SP3 MUI - CE WES2009 - Win* XP Pro SP3 MUI - WIN7 - WES7

XS7 Panel PC Fanless Celeron Stainless Steel

Features	XS712	XS715	XS719			
Display Size	12,1" SVGA - 12,1" XGA	15"	19"			
True-flat Touch screen		No LED/USB frontal				
Display Technology		TFT				
Display Colors		16,7 M				
Display Backlight		LED				
Lamp life (min. at 25 °C)		50k				
Display Resolution (pixel)	800x600 (SVGA) - 1024x768 (XGA)	1024 x 768	1280 x 1024			
Touch screen Type		Analog resistive (5 wires)				
CPU Fanless	The state of the s	ntel® Celeron Quad Core 2,00 GHz J1900				
Chipset		SoC				
Graphics embedded		Intel* HD Graphics				
RAM	Up	to 8GB DDR3L 1333 MHz SODIMM 204 pi	n			
Hard disk / SSD / mSATA (opt.)	min. 5	00 GB SATA 2,5" / SSD 16 GB / mSATA 32	GB			
CFast Internal (opt.)		1 x				
CFast Slots External (opt.)		1x				
RS232 serial port		2 x				
RS485 serial port	1x					
USB on rear (2.0/3.0)	3 x + 1 x (3.0)					
PCI Slot 1 (opt.)	1x					
PCI Slot 2 (opt.)	1x					
PCle slot x1 (opt.)		1 x				
Wi-Fi card (opt.)	PCI / USB / PCIe 1x					
Video port	1xVGA + 1x DVI-D (single-link digital signal only)					
Audio port	MIC IN + Line OUT					
Ethernet ports RJ45		2 x Ethernet 10/100/1000 Mbit Intel I210				
External (WxHxD) (mm)	336 x 256 x 81	425 x 300 x 85,5	508 x 384 x 92,5			
Cut-out (WxH) (mm)	321 x 240	393 x 275	477 x 355			
Back-up with battery		1 x				
Power supply	1830 Vcc max 75W	1830 Vcc max 85 W	1830 Vcc max 95 W			
Back-up with battery		1 x				
Power supply (Vdc)	1830 max 75 W	1830 max 85 W	1830 max 95 W			
Protection level		IP 66 on front				
Power consumption (W) (24 Vcc basic config - NO PCI CARDS)	36	43	55			
Operating temperature (°C)		0+50 (non condensing)				
Storage temperature (°C)		-20+65				
Humidity		90% (non condensing)				
Weight (kg)	~ 5	~ 6,5	~ 11			

Optional kits

RAID 2xHDD function		Option	
Removable HDD/SSD		Option	
DVD-RW Sata	External (opt.)	Internal	
Operating system		WIN7 - WES7 - WIN 8.1	







Esaware Box IPC

Rugged design. Expandable technology.

The new Box IPC range that fulfills even the toughest industrial

Esaware EW400 rugged Box IPCs have been designed for harsh industrial environments.

The EW400 series is particularly suited when thermal shocks and critical temperature conditions are required, -20 / +60 °C.



Side A - Detail of CFast slot , serial switch. APO or ATX selection.

Side B - Huge I/F capability towards ports and main power push button the field, 3 display ports, 4 USB 3.0, 2 independent LAN ports.

These are EW400 Rugged main features:

- Fanless design
- Rugged structure
- A technologically advanced heat dissipation system and an operating Temperature between -20 and + 60°C
- Heat-pipe cooling: an efficient active cooling system that allows the device to maintain superior computing performances without CPU throttling even in high temperature environments
- Up to CPU i7 quad core
- · Equipped with the state-ofthe-art I/F; USB 3.0, CFast, PCIe/PCI expansions



EW400 Atom EW400 Intel Core

Aluminium Enclosure	Heavy duty steel chassis Selection ATX/APO via Bios LED green on/off On/Off push-button LED red HDD Lockable power connector Aluminum heat-sink with Heat-Pipe thermal system		
CPU Fanless	Atom Dual Core D2550 1,86 GHz Intel Core i3-3120ME 2,4GHz Intel Core i7-3610QE Quad 2,3GHz		
Chipset	NM10 DMI 2,3GT/s	QM77 DMI 5GT/s	
GPU embedded	GMA3650 min 640 MHz	HD Graphics 4000 650/1000 MHz	
RAM	2GB RAM up to 16GB DDR3	4GB RAM up to 16GB DDR3 SODIMM 204-pin 1333 MHz	
I/F	2 x RS232/422/485 Sub-D 9 pin 3 x RS232 Sub-D 9 pin 6 x USB ver.2.0 2 x Ethernet 1 Gbit RJ45 - Intel 82574L 1 x miniPCle slot 1 x VGA 1 x DVI-D 1 x Line Out / Mic In 1 x CFast slot external access	2 x RS232/422/485 Sub-D 9 pin 3 x RS232 Sub-D 9 pin 4 x USB ver. 3.0 2 x Ethernet 1 Gbit RJ45 - Intel 82579/82574L 1 x miniPCle slot 1 x VGA 1 x DVI-D 1 x HDMI 1 x Line Out / Mic In 1 x CFast slot external access	
Drives	HDD min. 500GB/SSD min. 16GB/CFast min. 4GB	HDD min. 500GB/SSD min. 16GB/CFast min. 4GB [RAID 0-1 optional]	
Mechanical slot (opt.)	-	2 x slot (1xPCle x1 + 1PCl)	
Operating Temperature (°C)	-20+ 60 (no	n condensing)	
Storage Temperature (°C)	-20 .	+ 65	
Humidity	<90% (non condensing)		
Weight (kg)	3	4,5/6 (0/2 slot ver.)	
Power supply (Vdc)	926 - 22W (2GB + HDD)	926 - 45W (i3 - 4GB+HDD)	
Dimensions (W/H/D) (mm)	299x216x59	337x239x77 / 337x239x122 (0/2 slot ver.)	
Operating Systems	WIN7 - WES7		
Protection degree	IP20		
Certifications	CE / EN61000-6-2 / EN61000-6-4 / EAC		

BOX IPC BOX IPC







Esaware Box IPC

Compact design. Multi-connectivity.

Esaware EW410 Box IPC series offers a multi-functions compact version designed for industrial applications.

EW410 thanks to its compactness and the variety of I/F can be used in any industrial or professional application.

By means of lateral fixing plates or DIN-RAIL mount accessory, EW410 can be easily installed directly into the machine or positioned inside the electrical cabinet.



Full covered with aluminum heatsink for optimal conventional heat 2 independent LANs dissipation. 2 btail of I/F ports. 2 independent LANs 4 USB 2.0



Detail of I/F ports.
2 independent LANs
4 USB 2.0
2 multi serial ports
Main push button switch

These are EW410 Compact main features:

- Fanless design
- High performances in a compact
 size
- Multi I/F to communicate with the field
- Serial, USB, ETH, and mini PCle slot to support mSATA, 3G and Wi-Fi cards.
- An elegant and functional design with aluminum heat-sink for highly efficient passive heat discipation.
- Dual monitor control function.



Features EW410

Aluminium Enclosure	Heavy alu extrusion chassis Aluminum Heat-Sink LED green on/off Selection ATX/APO via Bios On/Off push-button
	LED blue HDD Lockable power connector
CPU Fanless	Atom Dual Core D2550 1,86 GHz
Chipset	NM10 DMI 2,5GT/s
GPU embedded	GMA3650 1920x1200 max. resolution
RAM	RAM 2GB DDR3 1066 MHz on board
I/F	2 x RS232/422/485 Sub-D 9 pin 4 x USB ver. 2.0 1 x SIM slot 2 x Ethernet 1 Gbit RJ45 - Intel 82574L 3 x MiniPCle slot (1 x mSATA) 1 x DVI-I 1 x Line Out / Mic In 1 x CFast slot external access
Drives	CFast/mSATA
Operating Temperature (°C)	0+60 (non condensing)
StorageTemperature (°C)	-40+80
Humidity	85% (non condensing)
Weight (kg)	0,7
Power supply (Vdc)	9 26 - max 20W
Dimensions (W/H/D) (mm)	161x108x32
Operating Systems	WIN7 - WES7 - WES2009
Protection degree	IP20
Certifications	CE - EN61000-6-2 / EN61000-6-4 / EAC



70 BOX IPC BOX IPC



BOX IPC



XB300 industrial BOX PC family offers a complete range of products able to fully satisfy any automation requirement.

XB300 industrial BOX PC range gives the maximum power to your applications thanks to the possibility to choose between several CPUs of series Intel® Core™ and Core 2 Duo, Celeron B810, Celeron Core Duo T3100, Intel Core2Duo P8400, Intel Atom N270, with or without slots, 2 or 3 PCI/PCIe on board.

XB300 BOX PC range has a modular architecture in order to best exploit the potential of Intel CPUs, ensuring both low energy • Industrial design that can meet consumption and high performance.

XB300's aluminum finned cover also permits a quick heat dissipation generated from the internal motherboard components.

These are XB300 main features:

- Wide choice of configurations with/without PCI slot, 2 or 3 PCI/PCIe
- High configuration flexibility with modular HDD,SSD,PCI slot, CPU and RAM
- Removable HDD/SSD
- RAID function
- any automation requirement
- Low energy consumption thanks to the aluminum finned cover that permits a quick heat dissipation
- Easy installation and maintenance on cabinets or on a side of the machine



Features	XB300 Atom 2PCI	XB300 3 Slot iCore	XB300 OPCI Celeron/ C2D	XB300 2PCI Celeron/ C2D	XB300 3PCI Celeron/ C2D	
CPU Fanless	Intel Atom N270 1.6 GHz	Intel* iCore i3-3120ME 2.4 GHz, i5-3610ME 2.7 GHz Cel. B810 1,6 GHz	Intel* Celeron Core Duo T3100 1,9 GHz Intel* Core2Duo P8400 2,26 GHz			
Chipset	945GSE+ICH7M	QM77		GM45+ICH9M		
FSB	533 MHz	DMI 5GT/s		800/1066 MHz		
RAM	up to 2 GB DDR2	up to 16 GB DDR3		up tp 8 GB DDR3		
Hard disk / SSD (opt.)	min. 500 GB 2,5" SATA / SSD 16 GB	min. 500 GB 2,5" SATA / SSD 16 GB	1	min. 500 GB 2,5" SATA / SSD 16 GB		
Compact flash slot External access	1x	1 x		1 x		
RS232 serial port	2 x	2 x		2 x		
RS485 serial port	-	2 x		-		
USB ports (2.0) - (3.0)	4 x	2x / 6x		4 x		
Power ON green LED frontal	1 x	1 x		1 x		
HDD red led	1x	1 x		1 x		
ATX/APO selector	1 x	via software	1x			
PS/2 keyboard / mouse	1 x	USB	1x			
1 Slot (opt.)	1x PCI	1x PCI	-	2 x PCI	3 x PCI	
2 Slot (opt.)	1x PCI	1x PCIe x8	-	2 x PCI	3 x PCI	
3 Slot (opt.)	-	1x PCle x8	-	2 x PCI	3 x PCI	
Wi-Fi card (opt.)	Internal USB / PCI	internal USB / PCI		internal USB / PCI		
Video port	1 x VGA + 1 x DVI-I (single-link digital signal only)	1 x DVI-I (single-link) + 1 x HDMI	1 x VGA + 1 x DVI-I (single-link digital signal only)			
Audio port	MIC IN + Line IN + Line OUT	MIC IN + Line OUT	MIC IN + Line IN + Line OUT			
Ethernet ports RJ45	2 x Ethernet 10/100/1000 Mbit RTL 8111C	2 x Ethernet 10/100/1000 Mbit RTL 82574	2 x Ethernet 10/100/1000 Mbit RTL 8111C			
External (W x H x D) (mm)	195 x 268 x 125	195 x 268 x 146	195 x 268 x 104	195 x 268 x 125	195 x 268 x 146	
Back-up with battery	1 x	1 x		1 x		
Power supply (Vdc)	1132 - max 95 W	1132 - max 95 W	1132 - max 95 W			
Power consumption (W) (24 Vdc - basic config - NO PCI CARDS)	30	42/54	54/42			
Protection level			IP20			
Weight (kg)	5	5,5	4,5	5	5,5	
Operating temperature (°C)	0 +50 (non condensing)					
Storage temperature (°C)			-20+60			
Humidity		85% (non condensing)				
Certifications	CE, Immunity EN 61000-6-2 / Emissions 61000-6-4					
Optional kits						
RAID 2xHDD function	1x					
Removable HDD/SSD (opt.)	1x					
Operating system	WIN7 - WES2009 - Win* XP Pro SP3 MUI					

BOX IPC





15" Industrial Touch PC for VESA mount.

The VESA industrial PC is the ideal solution to overcome constraints caused by limited space for the installation of a Panel PC on a machine. The VESA XV715 PC can be easily orientated to fit the different operational requirements in an area giving the operator maximum freedom of movement in the workspace.

Simply and quickly mounted via its VESA 75/100 attachment the XV715, from ESA Automation, is powered by an Intel® ATOM N2800 Fanless third generation Intel® Atom Dual Core microprocessor. It comes with a white LED backlit 15" LCD touchscreen and is highly configurable with HDD, SSD, CF and RAM options. Built for industry the XV7 has an IP66 front panel and an IP54 robust steel rear casing, the PC's modern design allows for ease of maintenance and access to removable HDD, SSD and CF.

VESA XV715 can be ordered with the following operating systems: WIN7, WES7, WES 2009, XP pro for Embedded.

These are XV7 Vesa IPC main features:

- 15" LCD display with Touch Screen and white LED backlighting.
- CPU Intel® ATOM
 N2800 Fanless , the third
 generation of Intel® Atom Dual
 Core microprocessor
- Extreme mounting simplicity thanks to the VESA 75/100 attachment holes
- High configuration flexibility with HDD, SSD, CF and RAM options
- · IP66 on front and IP54 on rear



XV7 VESA IPC Fanless

Features XS715

Display Size	15"		
Display Technology	TFT		
Display Colors	262 K		
Display Backlight	LED		
Life (min. at 25 °C)	50k		
Display Resolution (pixel)	1024 x 768		
Touch screen Type	Analog resistive (5 wires)		
CPU Fanless	Intel* ATOM Dual Core N2800 1.86 GHz		
Chipset	Intel® NM10		
Graphics embedded	Intel® GMA 3650		
DMI	2,5 GT/s		
RAM	up to 4 GB DDR3 DIMM 204 pin		
Removable HDD / SSD / mSATA (opt.)	min. 500 GB SATA 2,5" / SSD 16 GB / mSATA 32GB		
Compact Flash Slot Internal (opt.)	1x		
Compact Flash Slot External (opt.)	1x		
RS232 serial port	1x		
RS485 serial port	1x		
USB on front (2.0) IP66	1x		
USB on rear (2.0)	2 x		
Green led on front	1x		
Mini PCle	1x		
Wi-fi card (opt.)	miniPCle 1 x		
Video port	1x VGA		
Ethernet port RJ45	2 x Ethernet 10/100/1000 Mbit Intel 82574		
External (WxHxD) (mm)	425 x 300 x 77 (mm)		
Cut-out (WxH) (mm)	•		
Back-up with battery	1x		
Power supply (Vdc)	1830 max 85 W		
Power consumption (W) (24 Vdc - basic config)	43		
Protection level	IP 66 on front / IP54 on rear		
Operating temperature (°C)	0+50 (non condensing)		
Storage temperature (°C)	-20+65		
Humidity	90% (non condensing)		
Weight (kg)	7,5		
Certifications	CE, Environment EN 60068-2-6/27/30 / Immunity EN 61000-6-2 / Emissions 61000-6-4		
Operating system	WIN7 - WES7 - WES 2009 - XP Pro for Embedded		

ems: WIN7, WES7, WES 2009, XP pro for Embedded.

YESA VESA VESA







With the EW300 series, Esaware offers a wide range of industrial monitors that combine innovative and elegant design with the highest industrial engineering standards. EW300 Industrial Monitors have been designed to ensure high performance and • Resistive or capacitive durable reliability in harshest industrial environments.

All EW300 monitors share the same well designed bezel as the Reduced depth EW200 Panel IPCs.

ATEX IP66 frontal USB port.



The main features of EW300 **Industrial Monitors are:**

- LCD wide screen
- touchscreen
- Multi Video inputs
- Multi touchscreen outputs.



Features	EW312	EW315	EW318	EW322	
Display Size	12,1"	15,6"	18,5"	21,5"	
Display Technology		TFT			
Display Colors		16,7	'M		
Display Brightness (cd/m²)	400		300		
Contrast	1000	500	1000	5000	
Viewing Angle	88/88/88/88	85/85/80/80	85/85/80/80	89/89/89/89	
Display Resolution (pixel)	1280x800	1280x800 1366x768 1920x1080			
Backlight life (hours)	50k				
Touch Technology	Resistive (5 wires) / Capacitive (PCT 10 touches)				
Bezel /Chassis	Aluminium - PTFE no-sticking coating / Sheet Steel				
Front USB	1x USB 2.0 type A - rear 1x USB type B				
Rear touch outputs	1x USB 2.0 type B + 1x RS232 sub-din 9pins				
Video input	DVI-D + VGA				
Power Supply (Vdc)	1830				
Operating Temperature (°C)	0 + 50 (non condensing)				
Storage Temperature (°C)	-20 + 65				
Humidity	<85% (non condensing)				
External dimensions (W/H/D) (mm)	341x239x58	437x286x58	504x325x61	572x363x61	
Cut-out dimensions (W/H) (mm)	326,0x227,0	422,5x271,5	486,5x307,5	554,5x345,5	
Weight (kg)	3,5	5	7,5	9,5	
Protection degree (front)	IP66				
Certifications	CE - EN61000-6-2 / EN61000-6-4 / EN60068-2-6/27/30 / Atex Group II - Category 3 G-D Zone 2/22				

Monitor Monitor





The ESA Automation XM7 series offers a complete range of Industrial Monitors.

Affordable, complete, elegant, reliable, versatile: XM7 industrial monitors family represents the perfect solution for any automation requirement, from industrial to building automation and security to utility. The XM7 provides flexible, display, control and connectivity to any category of system.

Precise design, use of high quality components, extreme mechanical sturdiness,

The rugged 6mm aluminum or INOX bezel make XM7 suitable for all harsh environments such as those with high concentrations of dust, intense vibrations or high temperatures.

Main features of XM7 series:

- · Wide choice of LCD and touch screens, from 7" wide up to 19"
- LCD 4:3 with LED backlit
- Multi inputs for video signals.
- Multi outputs for touch screen
- Elegant and meticulous industrial design
- Front bezel in aluminum finishing.
- · INOX bezel fitted with true flat touch screen
- Frontal USB on aluminum version.
- IP66 protection degree

XM7W7 XM712 **Display Size** 12,1" 6mm thickness Bezel aluminium TFT 262 K colors TFT 16,2 M colors TFT 16,7 M colors Technology Display Backlight LED Brightness cd/m2 500 450 370 600:1 Contrast 1000:1 70-60 75-75 140-120 170-170 Viewing angle H-V Lamp life (min a 25°C) 50k Resolution (pixel) 800 x 480 800 x 600 1024 x 768 1280 x 1024 Analog resistive (4 wires) Analog resistive (5 wires) Touch technology Touch output RS232 + USB USB frontal IP66 / USB rear (2.0) 1 x **Green Led Power ON** 1 x (* digital signal only single-link) VGA/DVI-I */S-Video/Video composite External (WxHxD) 228 x 155 x 66,7 336 x 256 x 56,7 425 x 300 x 57,2 446 x 346 x 59,7 508 x 384 x 64,2 250 x 190 x 66,7 241 x 180 321 x 240 393 x 275 426 x 326 477 x 353 Cut-out (WxH) Power supply (Vdc) 18...30 max 50\ Power consumption (W) 30 35 45 Protection degree IP66 front Operating temperature (°C) 0...50 (non condensing) Storage temperature (°C) -20...+65 Humidity 90% (non condensing) 9,0 Weight (Kg) Certifications CE, Atex (Group II - cat.3 G D), Environmental EN60068-2-6/27/30, Immunity EN61000-6-2 / Emission EN 61000-6-4

XM715

XM717

XM719

XM708

The XM7 aluminum series are designed, built and tested to comply with the ATEX Directives. (Zone 2/22, category 3 G/D) and EN60068-2-6/27/30 enabling these robust units to safely withstand vibration, shock and humidity expected in these severe environments.



Monitor Monitor

Features





Stainless Steel Industrial Monitor

Extreme durability. High endurance.

The ESA Automation XM7 series is available with Stainless steel front bezel.

The rugged 6mm INOX bezel makes XM7 suitable for all harsh environments such as those with high concentrations of dust, intense vibrations or high temperatures.

INOX V2A stainless steel products are particularly suited for environments where compliance with health and hygiene norms are required.

The bezel made of INOX stainless steel includes the true-flat resistive touch screen.

The XM7 INOX series conforms to FDA 21 / EN1672-2 and they are the optimal solution for Food, Pharmaceutical and Chemical industries.

The XM7 INOX series is equipped with a true-flat resistive touch screen meeting Food Processing, Pharma and Chemical industry safety and hygiene requirements.

The XM7 INOX V2A stainless steel are designed, built and tested to comply with the ATEX Directives. (Zone 2/22, category 3 G/D) and EN60068-2-6/27/30 enabling these robust units to safely withstand vibration, shock and humidity expected in these severe environments.

Main features of XM7 INOX V2A stainless steel series:

- Wide choice of LCD and touch screens, from 7" wide up to 19"
- LCD 4:3 with LED backlit
- Multi inputs for video signals
- Multi outputs for touch screen
- Elegant and meticulous industrial design
- Bezel available in INOX stainless steel finish with TRUE FLAT touch screen
- IP69K protection degree on 7" and 12,1"
- IP66 protection degree on 15" and 19"

Features	XM7W7	XM712	XM715	XM719	
5: 1 6:					
Display Size	7" Wide	12,1"	15"	19"	
Bezel Inox V2A	6mm thickness				
Technology	TFT 262 K colors TFT 16,2 M colors TFT 16,7 M colors				
Display Backlight		LE	ED		
Brightness cd/m2	500	370	350	400	
Contrast	60	0:1	700:1	1000:1	
Viewing angle H-V	70-60	70-60 140-120 170-170			
Lamp life (min a 25°C)	50k				
Resolution (pixel)	800 x 480	800 x 600	1024 x 768	1280 x 1024	
Touch technology	Analog resistive true flat (4 wires) Analog resistive true flat (5 wires)				
Touch output		RS232	+ USB		
USB frontal IP66 / USB rear (2	1.0)	No	one		
Green Led Power ON	None				
VGA/DVI-I */S-Video/Video co	omposite	1 x (* digital signa	al only single-link)		
External (WxHxD)	228 x 155 x 66,7	336 x 256 x 56,7 425 x 300 x 57,2		508 x 384 x 64,2	
Cut-out (WxH)	219 x 145	321 x 240	393 x 275	477 x 353	
Power supply (Vdc)	1830 max 50W				
Power consumption (W)	30	35		45	
Protection degree		IP69K front 7" / 12,1"	- IP66 front 15" / 19"		
Operating temperature (°C)	050 (non condensing)				
Storage temperature (°C)	-20+65				
Humidity	90% (non condensing)				
Weight (Kg)	3,0 5,0 7,0 10,5				
Certifications	CE, Atex (Group II - cat.3 G D), Environmental EN60068-2-6/27/30, Immunity EN61000-6-2 / Emission EN 61000-6-4				

80 Monitor Monitor











Energy Management

Focus your energy.

ESA Automation SMART METER technological platform continuously monitors and records energy consumption (Electricity, gas, water, etc.) providing the data which give any organization the insight to make energy improvement decisions based on knowledge and not speculation. Just connect the cts and go.

The pre-installed Software on the Data Manager performs all the functions of an advanced Energy Management System from acquisition of consumption data and the secure access to the historical data to the remote control via VPN of smart meter networks.

This new approach, exploiting the IOT (Internet of Things) paradigm, moves the intelligence to the distributed sensors (EW800 smart meter). Each individual sensor makes its information to be available to the data manager (EW900 data manager) which publishes the accumulated data using FREE HTML5 web pages which can be displayed on anything from a smartphone or tablet up to a pc.

The use of wireless infrastructures (RF868,3G, 4G, Wi-Fi) and a distributed modular system gives ESAs EMS both low entry costs and low total cost of ownership.

SMART METERS EW800

ESA Automations EW800 Smart Meters are the building blocks of a modular energy monitoring system, providing accurate energy consumption figures in order to deliver distributed analysis of energy usage profiles. In addition to the measurement of standard energy values, the EW800 provides the appropriate quality parameters of the supply network. Up to 250 EW800 smart meters can be controlled one EW900 Data Manager.



Data Manager EW900

Esa Automation's EW900 compact Data Manager is capable of acquiring and managing consumption data (Electric, Gas, Water, etc.) from up to 250 measurement points (DEM, DTM, DRM). EW900 hardware options include up to 5 LANs, Wi-Fi, 3G mobile, wireless 868MHz, USB port and 3 digital in-3 digital out. All EW900 products come with the pre-installed Energyaware software, for easy management via standard browser, including real time visualization of all collected data, with advanced graphics.



Accessories EW8ET

Current Transformers - Rogowski Coil Sensors - Voltage Transformers for usage with EW800B (DTM) and EW800C (DRM).



ESA Automation's ESCo Kit provides any user with an extremely quick and easy method of implementing an EMS (Energy Monitoring System). The pre-wired, certified kit comprises of all the hardware and software you need to start monitoring and logging usage data, conveniently mounted in a GRP cabinet, just supply power and connect the CT/RC for the circuits to be monitored. The pre-installed software begins to record consumption immediately. Expanding the basic system is simply done by the addition of extra meters.





Energyaware

Software pre-installed on the Data Manager for measurement, monitoring, local and remote control of smart meter networks. The software performs all the funtionality of an advanced Energy Management System. Starting from the acquisition of consumption data, up to the remote control via VPN, including the secure access to the historical data loaded into databases.

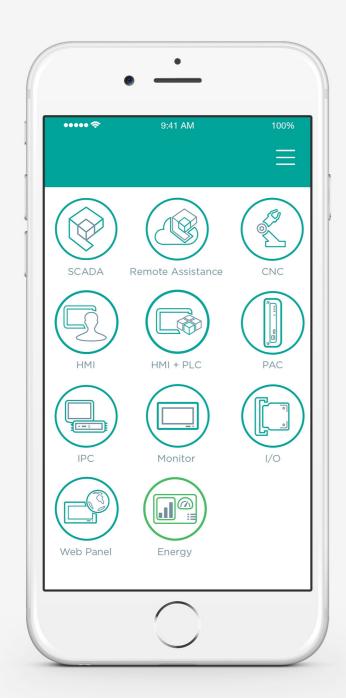
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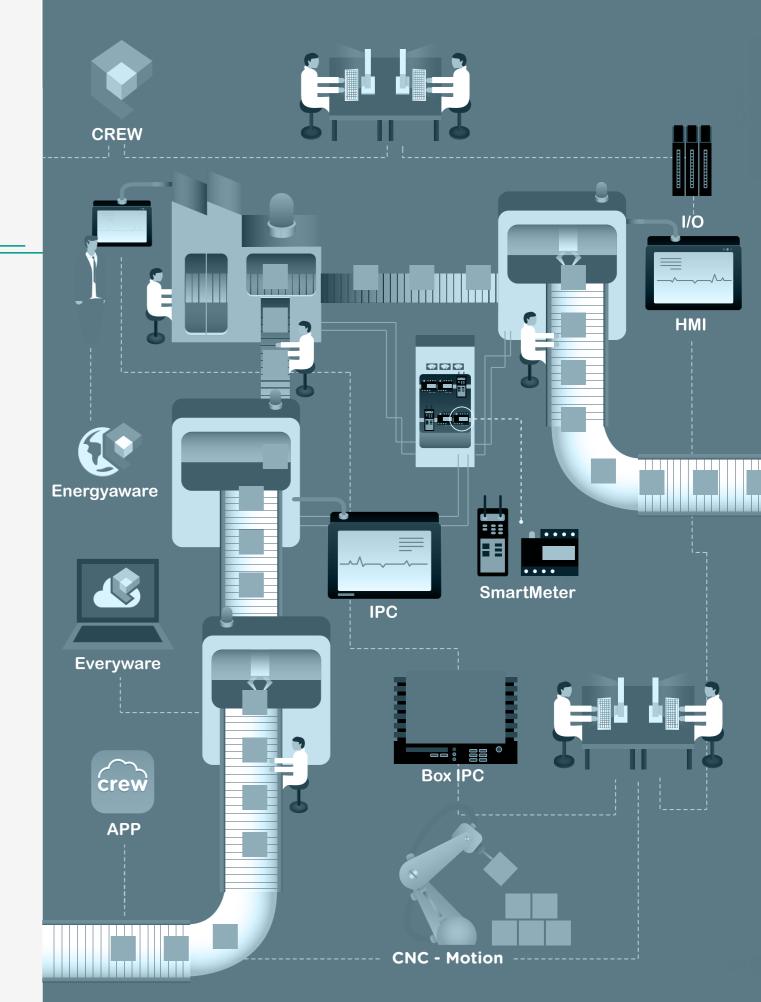
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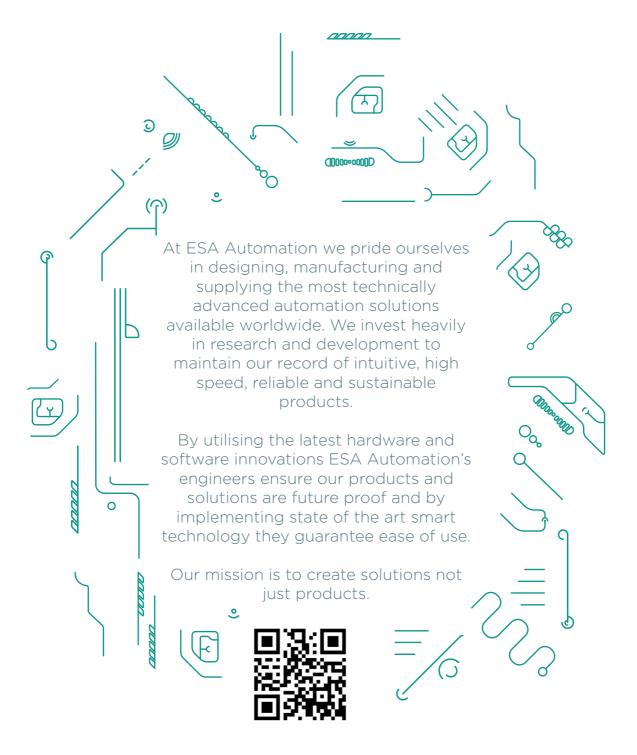
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www.esa-automation.com info@esa-automation.com