



| Accessories

Accessories



Structure and Function

The accessories expand the functionality and the application range of the control of VIPA systems of other manufacturers. The accessories are useable across systems and are largely manufacturer independent.

Interface modules

The IM 306 modules, or PROFIBUS-DP slave interface cards for the SIMATIC S5, enable simple, economical and safe upgrading to newer control systems with PROFIBUS-DP master interfaces, while maintaining the Siemens SIMATIC S5 peripherals.

Cables and DP connectors




Accessories, such as programming and PROFIBUS cables in various lengths, PROFIBUS-DP connectors with integrated intelligence and LED diagnostic display, a comprehensive set of adapters, rails, and connectors support the versatile use of the systems.

The bus connector EasyConn PB is used for connection of PROFIBUS participants in the bus line. The diagnostic LEDs, visible from all sides, facilitate starting considerably. The status of bus activity, the final resistance, the power supply and bus status are directly visible. The integrated controller supports data rates up to 12 Mbit/s.



S5 components



| Order number | 306-1LE00 | 306-1UE00 | 306-1UZ00 | |
|--|---|--|---|--|
| Figure |  |  |  | |
| Type | IM 306 DP slave 115U | IM 306 DP slave 135U/155U | IM 306 DP slave 135U/155U | |
| General information | | | | |
| Note | - | - | - | |
| Features | <ul style="list-style-type: none"> ‣ Converting Siemens S5 PLCs to S7 ‣ Exclusively suited for AG-115U central controller and expansion units ‣ Integrated DC 24V power supply | <ul style="list-style-type: none"> ‣ Converting Siemens S5 PLCs to S7 ‣ Exclusively suited for AG-135U/155U central controller and expansion units ‣ Integrated DC 24V power supply | <ul style="list-style-type: none"> ‣ Converting Siemens S5 systems to S7 ‣ Exclusively suited for AG-135U/155U central controller | |
| Technical data power supply | | | | |
| Power supply (rated value) | DC 24 V | DC 24 V | DC 5 V | |
| Power supply (permitted range) | DC 20.4...28.8 V | DC 20.4...28.8 V | - | |
| Reverse polarity protection | ✓ | ✓ | - | |
| Current consumption (no-load operation) | 0.1 A | 0.1 A | 0.4 A | |
| Current consumption (rated value) | 1 A | 1 A | 0.4 A | |
| Inrush current | 4 A | 4 A | - | |
| I^2t | 0.5 A ² s | 0.5 A ² s | - | |
| Max. current drain at backplane bus | 3.5 A | 3.5 A | - | |
| Max. current drain load supply | - | - | - | |
| Power loss | 4 W | 4 W | 2 W | |
| Status information, alarms, diagnostics | | | | |
| Status display | yes | yes | yes | |
| Interrupts | yes, parameterizable | yes, parameterizable | yes, parameterizable | |
| Process alarm | no | no | yes, parameterizable | |
| Diagnostic interrupt | yes, parameterizable | yes, parameterizable | yes, parameterizable | |
| Diagnostic functions | yes, parameterizable | yes, parameterizable | yes, parameterizable | |
| Diagnostics information read-out | possible | possible | possible | |
| Supply voltage display | green LED | green LED | green LED | |
| Service Indicator | - | - | - | |
| Group error display | red LED | red LED | red LED | |
| Channel error display | none | none | none | |

| Order number | 306-1LE00 | 306-1UE00 | 306-1UZ00 | |
|---------------------------------|--|--|--|--|
| Hardware configuration | | | | |
| Racks, max. | 1 | 1 | 1 | |
| Modules per rack, max. | 9 | 18 | 18 | |
| Number of digital modules, max. | 9 | 18 | 18 | |
| Number of analog modules, max. | 9 | 18 | 18 | |
| Communication | | | | |
| Fieldbus | PROFIBUS-DP to EN 50170 | PROFIBUS-DP to EN 50170 | PROFIBUS-DP to EN 50170 | |
| Type of interface | RS485 isolated | RS485 isolated | RS485 isolated | |
| Connector | Sub-D, 9-pin, female | Sub-D, 9-pin, female | Sub-D, 9-pin, female | |
| Topology | Linear bus with bus termination at both ends | Linear bus with bus termination at both ends | Linear bus with bus termination at both ends | |
| Electrically isolated | ✓ | ✓ | ✓ | |
| Number of participants, max. | 125 | 125 | 125 | |
| Node addresses | 1 - 125 | 1 - 125 | 1 - 125 | |
| Transmission speed, min. | 9.6 kbit/s | 9.6 kbit/s | 9.6 kbit/s | |
| Transmission speed, max. | 12 Mbit/s | 12 Mbit/s | 12 Mbit/s | |
| Address range inputs, max. | 244 Byte | 244 Byte | 244 Byte | |
| Address range outputs, max. | 244 Byte | 244 Byte | 244 Byte | |
| Number of TxPDOs, max. | - | - | - | |
| Number of RxPDOs, max. | - | - | - | |
| Housing | | | | |
| Material | PC GF20 | PC GF20 | PC GF20 | |
| Mounting | - | - | - | |
| Mechanical data | | | | |
| Dimensions (WxHxD) | 20 mm x 233.4 mm x 160 mm | 20 mm x 233.4 mm x 160 mm | 20 mm x 233.4 mm x 160 mm | |
| Weight | 220 g | 220 g | 190 g | |
| Environmental conditions | | | | |
| Operating temperature | 0 °C to 60 °C | 0 °C to 60 °C | 0 °C to 60 °C | |
| Storage temperature | -25 °C to 70 °C | -25 °C to 70 °C | -25 °C to 70 °C | |
| Certifications | | | | |
| UL508 certification | - | - | - | |

FIELDBUS accessories



| Order number | Type | Description | Note |
|--------------|-------------------------------|---|------|
| 972-0DP01 | EasyConn 90° - PROFIBUS plug | 12 Mbit/s, metal case, PG-jack, insulation piercing connection, switchable termination resistor, 90° outgoing cable | |
| 972-9DP01 | EasyConn 90° - PROFIBUS plug | 12 Mbit/s, metal case, PG-jack, insulation piercing connection, switchable termination resistor, 90° outgoing cable, ECO pack: 100 pieces | |
| 972-0DP10 | EasyConn 90° - PROFIBUS plug | 12 Mbit/s, metal case, PG-jack, insulation piercing connection, switchable termination resistor, 90° outgoing cable, bus diagnosis via LEDs | |
| 972-9DP10 | EasyConn 90° - PROFIBUS plug | 12 Mbit/s, metal case, PG-jack, insulation piercing connection, switchable termination resistor, 90° outgoing cable, bus diagnosis via LEDs, ECO pack: 100 pieces | |
| 972-0DP20 | EasyConn 45° - PROFIBUS plug | 12 Mbit/s, metal case, PG-jack, insulation piercing connection, switchable termination resistor, 45° outgoing cable, bus diagnosis via LEDs | |
| 972-9DP20 | EasyConn 45° - PROFIBUS plug | 12 Mbit/s, metal case, PG-jack, insulation piercing connection, switchable termination resistor, 45° outgoing cable, bus diagnosis via LEDs, ECO pack: 100 pieces | |
| 972-0DP30 | EasyConn 0° - PROFIBUS plug | 12 Mbit/s, metal case, PG-jack, insulation piercing connection, switchable termination resistor, 0° outgoing cable, bus diagnosis via LEDs | |
| 972-9DP30 | EasyConn 0° - PROFIBUS plug | 12 Mbit/s, metal case, PG-jack, insulation piercing connection, switchable termination resistor, 0° outgoing cable, bus diagnosis via LEDs, ECO pack: 100 pieces | |
| 972-0PN00 | PN/EC-Stecker 180° Field Plug | Plug: RJ45, Connection: 8 wire, Connection technique: IDC (insulation displacement connection) terminals, Connection area: AWG24/1 - 22/1 and AWG26/7 - 22/7, Cable diameter: 5,5 - 8,5 mm, Allocation: T568A, T568B, Industrial (4/8 wire) | |
| 972-8PN00 | PN/EC-Stecker 180° Field Plug | Plug: RJ45, Connection: 8 wire, Connection technique: IDC (insulation displacement connection) terminals, Connection area: AWG24/1 - 22/1 and AWG26/7 - 22/7, Cable diameter: 5,5 - 8,5 mm, Packaging unit: 10 pieces | |
| 973-1BA00 | PROFIBUS-DP/MPI-Repeater | insulated channel (2 segments), up to 31 devices per segment connectable up to 1200 m cable length transparent for all PROFIBUS and MPI protocols | |
| 973-5BE00 | PROFIBUS-DP/MPI-Repeater | 5 dc-insulated channels (repeater segments) up to 31 devices per segment connectable, 1200m tap line length, Transparent for all PROFIBUS and MPI protocols | |

Miscellaneous

| Order number | Type | Description | Note |
|---------------|----------------------------------|--|------|
| 905-6AA00 | EasyStrip | Stripping tool for PROFIBUS cable | |
| 6ES5491-0LB11 | Adaptation capsule for S5-115U/F | Siemens 6ES5 491-0LB11, Siemens SIMATIC S5, adaptation capsule for S5-115U/F (type ES 902) for connecting of up to 2 modules of S5-135U/155U, refreshed, 1 year warranty | |

Cables



| Order number | Type | Description | Note |
|--------------|--|--|------|
| 830-0LC00 | FCC 2xAWG 22 - Standard PROFIBUS cable | Fixed installation according to EN 50170, flame-retardant according to VDE 0472, T804 test type B, cable shell color violet, 100 m ring | |
| 830-0LD00 | FCC 2xAWG 22 - Standard PROFIBUS cable | Fixed installation according to EN 50170, flame-retardant according to VDE 0472, T804 test type B, cable shell color violet, 200 m ring | |
| 830-0LE00 | FCC 2xAWG 22 - Standard PROFIBUS cable | Fixed installation according to EN 50170, flame-retardant according to VDE 0472, T804 test type B, cable shell color violet, 500 m ring | |
| 830-0LF00 | FCC 2xAWG 22 - Standard PROFIBUS cable | Fixed installation according to EN 50170, flame-retardant according to VDE 0472, T804 test type B, cable shell color violet, 1000 m ring | |
| 830-0PC00 | PROFINET cable | 100m cable reel | |
| 830-0PD00 | PROFINET cable | 200m cable reel | |
| 830-0PE00 | PROFINET cable | 500m cable reel | |
| 830-0PF00 | PROFINET cable | 1000m cable reel | |
| 950-0AD00 | USB adapter | For MMC programming (Windows 98SE/ME/2000/XP) | |
| 950-0AD10 | PCMCIA adapter | For MMC programming | |
| 950-0KB00 | VIPA "Green Cable" | Programming and download cable, RS232/MP ² , 2 m for VIPA CPUs 100V, 200V and 300V | |
| 950-0KB01 | PC/AG programming cable | RS232-MPI/PROFIBUS adapter, 3 m | |
| 950-0KB10 | PC/AG programming cable | RS232-MPI/PPI adapter, LCD, 3 m | |
| 950-0KB30 | PC/AG programming cable | USB-MPI/PPI adapter, LCD 3 m | |
| 950-0KB31 | PC/AG programming cable | USB-MPI/PROFIBUS adapter, 3 m | |
| 950-0KB40 | PC/AG programming cable | TCP/IP-MPI/PROFIBUS adapter, 3 m | |
| 950-0KB50 | PC/AG programming cable | MPI cable with PU-/Diagnostic port, 2.5 m; use as PC/AG or TP/AG | |

Antennas and accessories



| Order number | Type | Description | Note |
|--------------|---------------------|---|------|
| 900-0AB50 | TM antenna GSM/UMTS | Portable antenna incl. 5m cable, SMA (male) and assembly bracket, resistance: 50 Ohm, power: 10 W, gain: 2.14 dBi, 900/1800 MHz | |
| 900-0AQ51 | TM antenna GSM/GPRS | Rod antenna incl. 5m cable and SMA (male) and mounting bracket, resistance: 50 Ohm, power: 20 W, gain: 2.14 dBi, 900/1800 MHz | |

Manuals and operating instructions



| Order number | Title | Contents | Language |
|-----------------|--|---|----------|
| HB37D_IM | Manual Accessories - IM | IM 306 DP slave | DE |
| HB37E_IM | Manual Accessories - IM | IM 306 DP slave | EN |
| HB39D_TM | Manual Accessories - TM | TM-E 900-2E6x and TM-H 900-2H6x Teleservice modules | DE |
| HB39E_TM | Manual Accessories - TM | TM-E 900-2E6x and TM-H 900-2H6x Teleservice modules | EN |
| HB45D | Manual OPC server - German | Installations and operating manual OPC server | DE |
| HB45E | Manual OPC server - English | Installations and operating manual OPC server | EN |
| HB91D | Manual WinNCS - German | Installations and operating manual WinNCS | DE |
| HB91E | Manual WinNCS - English | Installations and operating manual WinNCS | EN |
| S7-CRASHKURS-EX | STEP@7-Crashkurs Extended Edition - German/English | Practical introduction into PLC programming with simulation software WinPLC. Targeted at users looking for introduction into PLC programming software STEP@7 and practical experience at the same time. | DE/EN |
| SW900HOLA | DVD: Manuals & More | Complete documentation on DVD | DE/EN |