




Figure similar

SIMATIC ET 200SP, PROFINET, 2-port interface module IM 155-6 PN R1, 1 slot for BusAdapter, max. 64 I/O modules R1 redundancy, multi hot swap, 0.25 ms, optional PN strain relief,

| General information | |
|--|--|
| Product type designation | IM 155-6 PN R1 |
| HW functional status | From FS01 |
| Firmware version | V6.0 |
| <ul style="list-style-type: none"> FW update possible | Yes |
| Product function | |
| <ul style="list-style-type: none"> I&M data | Yes; I&M0 to I&M3 |
| <ul style="list-style-type: none"> Module swapping during operation (hot swapping) | Yes; Multi-hot swapping |
| <ul style="list-style-type: none"> Isochronous mode | No |
| Engineering with | |
| <ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version | V18 |
| <ul style="list-style-type: none"> PROFINET from GSD version/GSD revision | GSDML V2.42 |
| Configuration control | |
| via dataset | No |
| Supply voltage | |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 19.2 V |
| permissible range, upper limit (DC) | 28.8 V |
| Reverse polarity protection | Yes |
| Short-circuit protection | Yes |
| Mains buffering | |
| <ul style="list-style-type: none"> Mains/voltage failure stored energy time | 10 ms |
| Input current | |
| Current consumption, max. | 700 mA |
| Inrush current, max. | 5 A |
| I^2t | 0.36 A ² ·s |
| Power loss | |
| Power loss, typ. | 2.4 W |
| Address area | |
| Address space per module | |
| <ul style="list-style-type: none"> Address space per module, max. | 288 byte; For input and output data respectively |
| Address space per station | |
| <ul style="list-style-type: none"> Address space per station, max. | 1 440 byte |
| Hardware configuration | |
| Rack | |
| <ul style="list-style-type: none"> Quantity of operable ET 200SP modules, max. | 64 |
| <ul style="list-style-type: none"> Quantity of operable ET 200AL modules, max. | 0 |
| Submodules | |
| <ul style="list-style-type: none"> Number of submodules per station, max. | 256 |

| Interfaces | |
|---|---|
| Number of PROFINET interfaces | 1; 2 ports (switch) |
| 1. Interface | |
| Interface types | |
| <ul style="list-style-type: none"> • RJ 45 (Ethernet) • Number of ports • integrated switch • BusAdapter (PROFINET) | Yes 2 Yes Yes; BA 2x RJ45, BA 2x M12, BA 2x FC, BA 2x SCRJ, BA SCRJ/RJ45, BA SCRJ/FC, BA 2x LC, BA LC/RJ45, BA LC/FC, BA 2x LC-LD, BA LC-LD/RJ45, BA LC-LD/M12 |
| Protocols | |
| <ul style="list-style-type: none"> • PROFINET IO Device • Open IE communication • Media redundancy | Yes Yes Yes |
| PROFINET IO Device | |
| Services | |
| <ul style="list-style-type: none"> — IRT — PROFIenergy — Prioritized startup — Shared device | No No No No |
| Interface types | |
| RJ 45 (Ethernet) | |
| <ul style="list-style-type: none"> • Transmission procedure • 100 Mbps • Autonegotiation • Autocrossing | PROFINET with 100 Mbit/s full duplex (100BASE-TX) Yes Yes Yes |
| Protocols | |
| Modbus TCP | No |
| Redundancy mode | |
| <ul style="list-style-type: none"> • PROFINET system redundancy (S2) • PROFINET system redundancy (R1) • H-Sync forwarding | No Yes Yes |
| Media redundancy | |
| <ul style="list-style-type: none"> — MRP — MRPD | Yes No |
| Open IE communication | |
| <ul style="list-style-type: none"> • TCP/IP • SNMP • LLDP | Yes Yes Yes |
| Interrupts/diagnostics/status information | |
| Status indicator | Yes |
| Alarms | Yes |
| Diagnostics function | Yes |
| Diagnostics indication LED | |
| <ul style="list-style-type: none"> • RUN LED • ERROR LED • MAINT LED • ACT LED • Monitoring of the supply voltage (PWR-LED) • Connection display LINK TX/RX | Yes; green LED Yes; red LED Yes; Yellow LED Yes; green LED Yes; green PWR LED Yes; 2x green link LEDs on BusAdapter |
| Potential separation | |
| between backplane bus and electronics | No |
| between PROFINET and all other circuits | Yes; 1500 V AC (type test) |
| between supply and all other circuits | Yes |
| Permissible potential difference | |
| between different circuits | Safety extra low voltage SELV |
| Isolation | |
| Isolation tested with | 707 V DC (type test) |
| Ambient conditions | |
| Ambient temperature during operation | |
| <ul style="list-style-type: none"> • horizontal installation, min. | -30 °C; No condensation |

| | |
|--|---|
| • horizontal installation, max. | 60 °C |
| • vertical installation, min. | -30 °C; No condensation |
| • vertical installation, max. | 50 °C |
| Altitude during operation relating to sea level | |
| • Installation altitude above sea level, max. | 2 000 m |
| connection method | |
| ET-Connection | |
| • via BU/BA Send | No |
| Dimensions | |
| Width | 50 mm |
| Height | 138 mm |
| Depth | 89 mm |
| Weights | |
| Weight, approx. | 192 g; without BusAdapter |
| last modified: | 5/22/2024  |