



SIMATIC ET 200SP, PROFINET interface module IM 155-6PN Basic, Max. 12 I/O modules, 2x integrated RJ45 sockets incl. server module

| General information | |
|--|---|
| Product type designation | IM 155-6 PN BA |
| HW functional status | from FS04 |
| Firmware version | |
| <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; Single 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 | V13 SP1 |
| <ul style="list-style-type: none"> STEP 7 configurable/integrated from version | V5.5 SP4 |
| <ul style="list-style-type: none"> PROFINET from GSD version/GSD revision | GSDML V2.31 |
| Configuration control | |
| via dataset | Yes |
| 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 | 5 ms |
| Input current | |
| Current consumption, max. | 300 mA |
| I^2t | 0.09 A ² ·s |
| Power loss | |
| Power loss, typ. | 1.8 W |
| Address area | |
| Address space per module | |
| <ul style="list-style-type: none"> Address space per module, max. | 32 byte; For input and output data respectively |
| Address space per station | |
| <ul style="list-style-type: none"> Address space per station, max. | 32 byte |
| Hardware configuration | |
| Rack | |
| <ul style="list-style-type: none"> Quantity of operable ET 200SP modules, max. | 12 |
| <ul style="list-style-type: none"> Quantity of operable ET 200AL modules, max. | 0 |
| Interfaces | |
| Number of PROFINET interfaces | 1; 2 ports (switch) |
| 1. Interface | |

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|--|--|
| Interface types | |
| <ul style="list-style-type: none"> • RJ 45 (Ethernet) • Number of ports • integrated switch • BusAdapter (PROFINET) | Yes; 2 integrated RJ45 ports 2; integrated RJ45 ports Yes No |
| Protocols | |
| <ul style="list-style-type: none"> • PROFINET IO Device • Open IE communication • Media redundancy | Yes Yes Yes; PROFINET MRP client |
| 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) | No |
| 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 • Monitoring of the supply voltage (PWR-LED) • Connection display LINK TX/RX | Yes; green LED Yes; red LED Yes; Yellow 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 | No |
| Permissible potential difference | |
| between different circuits | Safety extra low voltage SELV |
| Isolation | |
| Isolation tested with | 707 V DC (type test) |
| Standards, approvals, certificates | |
| Network loading class | 2 |
| Ambient conditions | |
| Ambient temperature during operation | |
| <ul style="list-style-type: none"> • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max. | -30 °C; No condensation 60 °C -30 °C; No condensation 50 °C |
| Altitude during operation relating to sea level | |
| <ul style="list-style-type: none"> • Installation altitude above sea level, max. | 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual |

| connection method | |
|-------------------|--------|
| ET-Connection | |
| • via BU/BA Send | No |
| Dimensions | |
| Width | 35 mm |
| Height | 117 mm |
| Depth | 74 mm |
| Weights | |
| Weight, approx. | 125 g |

last modified: 5/22/2024 