




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 | |
| • FW update possible | Yes |
| Product function | |
| • I&M data | Yes; I&M0 to I&M3 |
| • Module swapping during operation (hot swapping) | Yes |
| • Isochronous mode | No |
| Engineering with | |
| • STEP 7 TIA Portal configurable/integrated from version | V13 SP1 |
| • STEP 7 configurable/integrated from version | V5.5 SP4 and higher |
| • PROFINET from GSD version/GSD revision | V2.3 / - |
| 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 |
| Mains buffering | |
| • Mains/voltage failure stored energy time | 5 ms |
| Input current | |
| Current consumption, max. | 300 mA |
| I ² t | 0.09 A ² ·s |
| Power loss | |
| Power loss, typ. | 1.8 W |
| Address area | |
| Address space per module | |
| • Address space per module, max. | 32 byte; per input / output |
| Address space per station | |
| • Address space per station, max. | 32 byte; per input / output |
| Hardware configuration | |
| Rack | |
| • Quantity of operable ET 200SP modules, max. | 12 |
| • Quantity of operable ET 200AL modules, max. | 0 |

| 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 integrated RJ45 ports 2 Yes No |
| Protocols | |
| <ul style="list-style-type: none"> • PROFINET IO Device • Open IE communication • Media redundancy | Yes Yes Yes; PROFINET MRP |
| Interface types | |
| RJ 45 (Ethernet) | |
| <ul style="list-style-type: none"> • Transmission procedure • 10 Mbps • 100 Mbps • Autonegotiation • Autocrossing | PROFINET with 100 Mbit/s full duplex (100BASE-TX) No Yes; PROFINET with 100 Mbit/s full duplex (100BASE-TX) Yes Yes |
| Protocols | |
| PROFINET IO Device | |
| Services | |
| <ul style="list-style-type: none"> — IRT — PROFIenergy — Prioritized startup — Shared device | No No No 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 |
| Isochronous mode | |
| Equidistance | No |
| 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 |
| between supply and all other circuits | No |
| 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 60 °C -30 °C 50 °C |

| | |
|---|---|
| Altitude during operation relating to sea level | |
| • 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: | 1/16/2021  |