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## Data sheet 6ES7155-6AR00-0AN0



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; Single hot swapping |
| ● 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 |
| $I^2t$ | 0.09 $A^2 \cdot s$ |
| **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) |


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|---|---|
| **1. Interface** | |
| Interface types | |
| ● RJ 45 (Ethernet) | Yes; 2 integrated RJ45 ports |
| ● Number of ports | 2 |
| ● integrated switch | Yes |
| ● BusAdapter (PROFINET) | No |
| Protocols | |
| ● PROFINET IO Device | Yes |
| ● Open IE communication | Yes |
| ● Media redundancy | Yes; PROFINET MRP |
| **Interface types** | |
| RJ 45 (Ethernet) | |
| ● Transmission procedure | PROFINET with 100 Mbit/s full duplex (100BASE-TX) |
| ● 10 Mbps | No |
| ● 100 Mbps | Yes; PROFINET with 100 Mbit/s full duplex (100BASE-TX) |
| ● Autonegotiation | Yes |
| ● Autocrossing | Yes |
| **Protocols** | |
| PROFINET IO Device | |
| Services | |
| — IRT | No |
| — PROFIenergy | No |
| — Prioritized startup | No |
| — Shared device | No |
| Redundancy mode | |
| ● PROFINET system redundancy (S2) | No |
| Media redundancy | |
| — MRP | Yes |
| — MRPD | No |
| Open IE communication | |
| ● TCP/IP | Yes |
| ● SNMP | Yes |
| ● LLDP | Yes |
| **Isochronous mode** | |
| Equidistance | No |
| **Interrupts/diagnostics/status information** | |
| Status indicator | Yes |
| Alarms | Yes |
| Diagnostics function | Yes |
| Diagnostics indication LED | |
| ● RUN LED | Yes; green LED |
| ● ERROR LED | Yes; red LED |
| ● MAINT LED | Yes; Yellow LED |
| ● Monitoring of the supply voltage (PWR-LED) | Yes; green PWR LED |
| ● Connection display LINK TX/RX | 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 |
| **Standards, approvals, certificates** | |
| Network loading class | 2 |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● horizontal installation, min. | -30 °C |
| ● horizontal installation, max. | 60 °C |
| ● vertical installation, min. | -30 °C |
| ● vertical installation, max. | 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 |


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

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