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## Data sheet 6ES7155-6AU00-0HM0



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, 1 ms, PN security class 1

| | |
|---|---|
| **General information** | |
| Product type designation | IM 155-6 PN R1 |
| HW functional status | From FS03 |
| Firmware version | V6.1 |
| ● FW update possible | Yes |
| Product function | |
| ● I&M data | Yes; I&M0 to I&M4 |
| ● Module swapping during operation (hot swapping) | Yes; Multi-hot swapping |
| ● Isochronous mode | No |
| ● IRT | No |
| Engineering with | |
| ● STEP 7 TIA Portal configurable/integrated from version | V19 |
| ● STEP 7 configurable/integrated from version | use GSD file |
| ● PROFINET from GSD version/GSD revision | GSDML V2.45 |
| **Configuration control** | |
| via dataset | No |
| **CiR - Configuration in RUN** | |
| Reparameterization possible in RUN | Yes |
| reconfiguration possible in RUN | 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 | |
| ● Mains/voltage failure stored energy time | 10 ms |
| **Input current** | |
| Current consumption, max. | 700 mA |
| Inrush current, max. | 5 A |
| $I^2t$ | 0.36 $A^2 \cdot s$ |
| **Power loss** | |
| Power loss, typ. | 2.4 W |
| **Address area** | |
| Address space per module | |
| ● Address space per module, max. | 288 byte; For input and output data respectively |
| Address space per station | |
| ● Address space per station, max. | 1 440 byte |


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|---|---|
| **Hardware configuration** | |
| Rack | |
| ● Quantity of operable ET 200SP modules, max. | 64 |
| ● Quantity of operable ET 200AL modules, max. | 0 |
| Submodules | |
| ● Number of submodules per station, max. | 256 |
| **Interfaces** | |
| Transmission procedure | 100BASE-TX |
| Number of PROFINET interfaces | 1; 2 ports (switch) |
| **1. Interface** | |
| Interface types | |
| ● RJ 45 (Ethernet) | Yes; with BusAdapter |
| ● Number of ports | 2; with BusAdapter |
| ● integrated switch | Yes |
| ● BusAdapter (PROFINET) | 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 | |
| ● PROFINET IO Device | Yes |
| ● Open IE communication | Yes |
| ● Media redundancy | Yes; PROFINET MRP client |
| PROFINET IO Device | |
| Services | |
| — IRT | No |
| — Dynamic Frame Packing (DFP) | No |
| — PROFIenergy | No |
| — Prioritized startup | No |
| — Shared device | No |
| **Interface types** | |
| RJ 45 (Ethernet) | |
| ● Transmission procedure | PROFINET with 100 Mbit/s full duplex (100BASE-TX) |
| ● 100 Mbps | Yes |
| ● Autonegotiation | Yes |
| ● Autocrossing | Yes |
| **Protocols** | |
| Supports protocol for PROFINET IO | Yes |
| PROFIsafe | Yes |
| PROFIBUS | No |
| EtherNet/IP | No |
| Modbus TCP | No |
| Redundancy mode | |
| ● PROFINET system redundancy (S2) | No |
| ● PROFINET system redundancy (R1) | Yes |
| ● H-Sync forwarding | Yes |
| Media redundancy | |
| — MRP | Yes |
| — MRPD | No |
| Open IE communication | |
| ● TCP/IP | Yes |
| ● SNMP | Yes |
| ● LLDP | Yes |
| **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 |


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| | |
|---|---|
| ● ACT LED | Yes; green 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; 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) |
| **Standards, approvals, certificates** | |
| Network loading class | 3 |
| Ecological footprint | |
| ● environmental product declaration | Yes |
| Global warming potential | |
| — global warming potential, (total) [CO2 eq] | 105 kg |
| — global warming potential, (during production) [CO2 eq] | 13.7 kg |
| — global warming potential, (during operation) [CO2 eq] | 91.9 kg |
| — global warming potential, (after end of life cycle) [CO2 eq] | -0.617 kg |
| **Security** | |
| PROFINET Security Class | 1 |
| signed firmware update | Yes |
| Secure Boot | No |
| securely removing data | No |
| data integrity | Yes |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● 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 |
| **Classifications** | |

| | Version | Classification |
|---|---|---|
| eClass | 16 | 27-24-26-08 |
| eClass | 14 | 27-24-26-08 |
| eClass | 12 | 27-24-26-08 |
| eClass | 9.1 | 27-24-26-08 |
| eClass | 9 | 27-24-26-08 |
| eClass | 8 | 27-24-26-08 |
| eClass | 7.1 | 27-24-26-08 |
| eClass | 6 | 27-24-26-08 |
| ETIM | 10 | EC001604 |


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| | | |
|---|---|---|
| ETIM | 9 | EC001604 |
| ETIM | 8 | EC001604 |
| ETIM | 7 | EC001604 |
| IDEA | 4 | 3564 |
| UNSPSC | 15 | 32-15-17-05 |

## Approvals / Certificates

### General Product Approval

EG-Konf. | | Miscellaneous | Manufacturer Declaration | UL | KC

### General Product Approval

RCM | EAC | KC | EG-Konf. | UKCA | China RoHS

### General Product Approval | For use in hazardous locations

Manufacturer Declaration | UL | CCC-Ex | FM | ATEX | Type Examination Certificate

### For use in hazardous locations | Maritime application

IECEx | Miscellaneous | CCC-Ex | ABS | BUREAU VERITAS | DNV

### Maritime application | Environment

LRS | NK / Nippon Kaiji Kyokai | RINA | RMRS | CCS (China Classification Society) | EPD

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