# SIEMENS

**Data sheet**                                                       **6ES7155-5AA00-0AC0**



SIMATIC ET 200MP. PROFINET IO device Interface module IM 155-5 PN HF, for ET 200MP electronic modules; Up to 12 IO modules without PS; Up to 30 IO modules with additional PS; Integrated 2-port switch; RJ45 shared device; MRP; IRT >=0.25 ms; Isochronous mode FW update; I&M0...3; Prioritized startup, S2 redundancy; Shared device with 4 controllers Suitable for operation with active backplane bus (FW V4.4 or higher)

| General information | |
| --- | --- |
| Product type designation | IM 155-5 PN HF |
| HW functional status | From FS03 |
| Firmware version | V4.4 |
| ● FW update possible | Yes |
| Vendor identification (VendorID) | 002AH |
| Device identifier (DeviceID) | 0X0312 |
| **Product function** | |
| ● I&M data | Yes; I&M0 to I&M3 |
| ● Module swapping during operation (hot swapping) | Yes; In combination with active backplane bus |
| ● Isochronous mode | Yes |
| **Engineering with** | |
| ● STEP 7 TIA Portal configurable/integrated from version | V16 with HSP 308 |
| ● STEP 7 configurable/integrated from version | V5.5 SP3 / - |
| ● PROFINET from GSD version/GSD revision | V2.3 / - |

| Configuration control | |
| --- | --- |
| via user data | No |
| 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** | |
| ● Mains/voltage failure stored energy time | 5 ms |

| Input current | |
| --- | --- |
| Current consumption (rated value) | 0.2 A |
| Current consumption, max. | 1.2 A |
| Inrush current, max. | 9 A |
| I²t | 0.09 A²·s |

| Power | |
| --- | --- |
| Infeed power to the backplane bus | 14 W |
| Power available from the backplane bus | 2.3 W |

| Power loss | |
| --- | --- |
| Power loss, typ. | 4.5 W |

| Address area | |
| --- | --- |
| **Address space per module** | |
| ● Address space per module, max. | 256 byte; per input / output |

| | |
|---|---|
| **Address space per station** | |
| ● Address space per station, max. | 512 byte; per input / output |
| **Hardware configuration** | |
| Integrated power supply | Yes |
| System power supply can be plugged in to left of IM | Yes; only with design with U-connectors |
| Number of permissible power segments | 3 |
| Rack | |
| ● Modules per rack, max. | 30; I/O modules |
| Submodules | |
| ● Number of submodules per station, max. | 256 |
| **Interfaces** | |
| Number of PROFINET interfaces | 1 |
| **1. Interface** | |
| Interface types | |
| ● RJ 45 (Ethernet) | Yes |
| ● Number of ports | 2 |
| ● integrated switch | Yes |
| Protocols | |
| ● PROFINET IO Device | Yes |
| ● Open IE communication | Yes |
| ● Media redundancy | Yes |
| PROFINET IO Device | |
| Services | |
| — IRT | Yes |
| — PROFIenergy | No |
| — Prioritized startup | Yes |
| — Shared device | Yes |
| — Number of IO Controllers with shared device, max. | 4 |
| **Interface types** | |
| RJ 45 (Ethernet) | |
| ● Transmission procedure | PROFINET with 100 Mbit/s full duplex (100BASE-TX) |
| ● 100 Mbps | Yes |
| ● Autonegotiation | Yes |
| ● Autocrossing | Yes |
| **Protocols** | |
| Redundancy mode | |
| ● PROFINET system redundancy (S2) | Yes |
| — on S7-1500R/H | Yes |
| — on S7-400H | Yes; With GSDML file as of STEP 7 V5.5 SP3 |
| ● PROFINET system redundancy (R1) | No |
| ● H-Sync forwarding | Yes |
| Media redundancy | |
| — MRP | Yes |
| — MRPD | Yes |
| Open IE communication | |
| ● TCP/IP | Yes |
| ● SNMP | Yes |
| ● LLDP | Yes |
| **Isochronous mode** | |
| Equidistance | Yes |
| shortest clock pulse | 250 µs |
| max. cycle | 4 ms |
| **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 |
| ● Connection display LINK TX/RX | Yes; 2x green-yellow LEDs |

| Potential separation | |
|---|---|
| between backplane bus and electronics | No |
| between PROFINET and all other circuits | Yes; 1 500 V AC |
| between supply and all other circuits | No |
| **Isolation** | |
| Isolation tested with | 707 V DC (type test) |
| **Ambient conditions** | |
| Ambient temperature during operation | |
| ● horizontal installation, min. | -25 °C; from FS04 |
| ● horizontal installation, max. | 60 °C |
| ● vertical installation, min. | -25 °C; from FS04 |
| ● vertical installation, max. | 40 °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 / header** | |
| ET-Connection | |
| ● via BU/BA Send | No |
| **Dimensions** | |
| Width | 35 mm |
| Height | 147 mm |
| Depth | 129 mm |
| **Weights** | |
| Weight, approx. | 350 g |

| | |
|---|---|
| **last modified:** | 3/31/2023 ⬀ |

4/11/2023