

SIPLUS ET 200MP IM 155-5 PN ST -40 ... +70 GRAD C WITH CONFORMAL COATING BASED ON 6ES7155-5AA00-0AB0 . PROFINET IO-DEVICE INTERFACEMODULE IM 155-5 PN ST FOR ET 200MP ELEKTRONIKMODULES; UP TO 12 IO-MODULES WITHOUT ADDITIONAL PS; UP TO 30 IO- MODULES WITH ADDITIONONAL PS SHARED DEVICE; MRP; IRT >=0.25MS; ISOCHRONICITY FW-UPDATE; I(>&<)M0...3; FSU WITH 500MS



Figure similar

General information	
Product type designation	IM 155-5 PN ST
HW functional status	E01
Firmware version	V1.0.0
Vendor identification (VendorID)	0x002A
Device identifier (DeviceID)	0X0312
Product function	
<ul style="list-style-type: none"> <li>I&amp;M data</li> </ul>	Yes; I&M0 to I&M3
Engineering with	
<ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/integrated as of version</li> </ul>	V12 / V12
<ul style="list-style-type: none"> <li>STEP 7 configurable/integrated as of version</li> </ul>	V5.5 SP3 / -
<ul style="list-style-type: none"> <li>PROFINET as of GSD version/GSD revision</li> </ul>	V1.0 / V2.23
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	20.4 V

permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Short-circuit protection	Yes
<b>Mains buffering</b>	
• Mains/voltage failure stored energy time	5 ms

<b>Input current</b>	
Current consumption (rated value)	0.2 A
Current consumption, max.	1.2 A
Inrush current, max.	9 A
$I^2t$	0.09 A <sup>2</sup> ·s

<b>Power</b>	
Infeed power to the backplane bus	14 W
Power available from the backplane bus	2.3 W

<b>Power loss</b>	
Power loss, typ.	4.5 W

<b>Address area</b>	
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

<b>Hardware configuration</b>	
System power supply can be plugged in to left of IM	Yes
Number of permissible power segments	3
<b>Rack</b>	
• Modules per rack, max.	30; I/O modules

<b>Interfaces</b>	
Number of PROFINET interfaces	1

<b>1. Interface</b>	
Interface types	
• Number of ports	2
• integrated switch	Yes
• RJ 45 (Ethernet)	Yes
Functionality	
• PROFINET IO Device	Yes
• Media redundancy	Yes

<b>Interface types</b>	
RJ 45 (Ethernet)	
• Transmission procedure	PROFINET with 100 Mbit/s full duplex (100BASE-TX)
• 100 Mbps	Yes

- Autonegotiation Yes
- Autocrossing Yes

## Protocols

### PROFINET IO Device

#### Services

- Isochronous mode Yes
- IRT Yes
- Prioritized startup Yes; 500 ms
- Shared device Yes
- Number of IO Controllers with shared device, max. 2

### Open IE communication

- TCP/IP Yes
- SNMP Yes
- LLDP Yes

## Isochronous mode

- Isochronous operation (application synchronized up to terminal) Yes
- Equidistance Yes
- shortest clock pulse 250  $\mu$ s
- max. cycle 4 ms

## Interrupts/diagnostics/status information

- Status indicator Yes
- Alarms Yes
- Diagnostic functions 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; yellow LED

## Potential separation

- between backplane bus and electronics No
- between PROFINET and all other circuits Yes
- between supply and all other circuits No

## Permissible potential difference

- between different circuits 75 V DC/60 V AC (base isolation)

## Isolation

- Isolation tested with 707 V DC (type test)

## Ambient conditions

- Extended ambient conditions

- relative to ambient temperature-atmospheric pressure-installation altitude

Tmin ... Tmax at 1080 hPa ... 795 hPa (-1000 m ... +2000 m) // Tmin ... (Tmax - 10K) at 795 hPa ... 658 hPa (+2000 m ... +3500 m) // Tmin ... (Tmax - 20K) at 658 hPa ... 540 hPa (+3500 m ... +5000 m)

#### Relative humidity

- With condensation, tested in accordance with IEC 60068-2-38, max.

100 %; RH incl. condensation/frost (no commissioning under condensation conditions)

#### Resistance

- against biologically active substances / conformity with EN 60721-3-3
- against chemically active substances / conformity with EN 60721-3-3
- against mechanically active substances / conformity with EN 60721-3-3

Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna). The supplied connector covers must remain on the unused interfaces during operation!

Yes; Class 3C4 (RH < 75%) incl. salt spray according to EN 60068-2-52 (degree of severity 3). The supplied connector covers must remain on the unused interfaces during operation!

Yes; Class 3S4 incl. sand, dust. The supplied connector covers must remain on the unused interfaces during operation!

#### Dimensions

Width	35 mm
Height	147 mm
Depth	129 mm

#### Weights

Weight, approx.	310 g
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**last modified:** 10/14/2016