



Figure similar

SIMATIC ET 200MP. 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

General information	
Product type designation	IM 155-5 PN ST
HW functional status	From FS01
Firmware version	V4.1.0
Vendor identification (VendorID)	0x002A
Device identifier (DeviceID)	0X0312
Product function	
<ul style="list-style-type: none"> I&M data 	Yes; I&M0 to I&M3
<ul style="list-style-type: none"> Module swapping during operation (hot swapping) 	No
<ul style="list-style-type: none"> Isochronous mode 	Yes
Engineering with	
<ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version 	V14 or higher with HSP 0223 / integrated with V15 or higher
<ul style="list-style-type: none"> STEP 7 configurable/integrated from version 	GSDML V2.32
<ul style="list-style-type: none"> 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	
<ul style="list-style-type: none"> Mains/voltage failure stored energy time 	10 ms
Input current	
Current consumption (rated value)	0.2 A
Current consumption, max.	1.2 A
Inrush current, max.	9 A
I ² t	0.09 A ² ·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	

<ul style="list-style-type: none"> Address space per module, max. 	256 byte; per input / output
Address space per station	
<ul style="list-style-type: none"> 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
Number of permissible power segments	3
Rack	
<ul style="list-style-type: none"> Modules per rack, max. 	30; I/O modules
Interfaces	
Number of PROFINET interfaces	1
1. Interface	
Interface types	
<ul style="list-style-type: none"> RJ 45 (Ethernet) Number of ports integrated switch 	Yes 2 Yes
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 100 Mbps Autonegotiation Autocrossing 	PROFINET with 100 Mbit/s full duplex (100BASE-TX) Yes Yes Yes
Protocols	
PROFINET IO Device	
Services	
<ul style="list-style-type: none"> IRT PROFIenergy Prioritized startup Shared device Number of IO Controllers with shared device, max. 	Yes No Yes Yes 2
Redundancy mode	
<ul style="list-style-type: none"> PROFINET system redundancy (S2) Redundant PROFINET configuration (R1) 	No 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	Yes
shortest clock pulse	250 μ s
max. cycle	4 ms
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 Connection display LINK TX/RX 	Yes; green LED Yes; red LED Yes; Yellow LED Yes; 2x green-yellow LEDs
Potential separation	

between backplane bus and electronics	No
between PROFINET and all other circuits	Yes
between supply and all other circuits	No
Isolation	
Isolation tested with	707 V DC (type test)
Ambient conditions	
Ambient temperature during operation	
<ul style="list-style-type: none"> • horizontal installation, min. • horizontal installation, max. • vertical installation, min. • vertical installation, max. 	<ul style="list-style-type: none"> -25 °C; From FS03 60 °C -25 °C; From FS03 40 °C
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> • Installation altitude above sea level, max. 	5 000 m; Restrictions for installation altitudes > 2 000 m, see manual
connection method / header	
ET-Connection	
<ul style="list-style-type: none"> • via BU/BA Send 	No
Dimensions	
Width	35 mm
Height	147 mm
Depth	129 mm

last modified: 4/26/2021 