



SIMATIC PN/MF coupler multi-fieldbus coupler, PN IO, EtherNet/IP, for deterministic data exchange between max. 1 controller per side, redundant current infeed, Ethernet connection via SIMATIC BusAdapter (BA), supplied without BusAdapter

General information	
Product type designation	PN/MF coupler
Firmware version	V5.0.1
• FW update possible	Yes
Vendor identification (VendorID)	002AH
Device identifier (DeviceID)	0604H
Manufacturer ID according to ODVA (VendorID)	04E3H
Device ID according to ODVA (Product code)	0FA0H
Product function	
• I&M data	Yes; I&M0 to I&M3
• Isochronous mode	No
• Tool changer	Yes; Docking station and docking unit
• Local coupling, IO data	No
• Local coupling, data records	No
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	V16 or higher via HSP of PN/PN coupler V4.2 or higher in compatibility mode
• STEP 7 configurable/integrated from version	Configurable via GSD file
• PROFINET from GSD version/GSD revision	GSDML V2.3.x
Installation type/mounting	
Mounting	Mounting rail 7.5 mm and 15 mm
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	10 ms
Input current	
Current consumption, max.	360 mA; for 19.2 V input voltage at the right-hand supply terminal, including 2 plugged BA
Inrush current, max.	1.6 A
I ² t	0.031 A ² ·s
from supply voltage 1L+, max.	320 mA; for 19.2 V input voltage at the left-hand supply terminal, including 2 plugged BA
Power loss	
Power loss, typ.	4 W; For 24 V input voltage and 2 plugged BA 2x RJ45 If BusAdapters with an optical interface are plugged, there is an additional 750 mW per optical interface (3 W with 2 plugged BA 2x LC)
Address area	
Address space per module	

• Address space per module, max.	254 byte; max. 254 bytes of input data and 253 bytes of output data
Address space per station	
• Address space per station, max.	1 440 byte; per input / output
Hardware configuration	
Submodules	
• Number of submodules per station, max.	16
Interfaces	
Number of PROFINET interfaces	2; One PROFINET interface per line side
Optical interface	No
1. Interface	
Interface types	
• Number of ports	2; via BusAdapter
• integrated switch	Yes
• BusAdapter (PROFINET)	Yes; compatible BusAdapters: BA 2x RJ45, BA 2x FC, BA 2x M12
Protocols	
• PROFINET IO Device	Yes
• Open IE communication	Yes
• Media redundancy	Yes; as MRP client, maximum of 50 nodes in the ring
PROFINET IO Device	
Services	
— IRT	No
— Dynamic Frame Packing (DFP)	Yes
— PROFINergy	No
— Prioritized startup	Yes
— Shared device	No
2. Interface	
Interface types	
• Number of ports	2; via BusAdapter
• integrated switch	Yes
Protocols	
• PROFINET IO device	Yes
• Open IE communication	Yes
• Media redundancy	Yes; as MRP client, maximum of 50 nodes in the ring
PROFINET IO Device	
Services	
— IRT	No
— Dynamic Frame Packing (DFP)	Yes
— PROFINergy	No
— Prioritized startup	Yes
— Shared device	No
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	
Supports protocol for PROFINET IO	Yes
EtherNet/IP	Yes; via interface X1
Modbus TCP	No
Protocols (Ethernet)	
• TCP/IP	Yes
• SNMP	Yes
• LLDP	Yes
• ping	Yes
• ARP	Yes
Redundancy mode	
• PROFINET system redundancy (S2)	Yes; NAP S2 acc. to IEC

• PROFINET system redundancy (R1)	No		
Media redundancy			
— MRP	Yes		
— MRPD	No		
EtherNet/IP			
Services			
— CIP Implicit Messaging	Yes		
— CIP Explicit Messaging	Yes		
— CIP Safety	No		
Updating times			
— Requested Packet Interval (RPI)	2 ms		
Address area			
— Address space per module, max.	244 byte; (244 byte outputs / 244 byte inputs)		
— ForwardOpen (Class1 & 32 bit Header)	500 byte; (496 byte outputs / 500 byte inputs)		
— LargeForwardOpen (Class3)	4 002 byte		
Open IE communication			
• TCP/IP	Yes		
• SNMP	Yes		
• LLDP	Yes		
Interrupts/diagnostics/status information			
Status indicator	Yes		
Alarms	Yes		
Diagnostics function	Yes; Parameterizable		
Diagnostics indication LED			
• RUN LED	Yes; green LED		
• ERROR LED	Yes; red LED		
• MAINT LED	Yes; Yellow LED		
• LINK LED	Yes; 2x green link LEDs on BusAdapter		
• Monitoring of the supply voltage (PWR-LED)	Yes; green PWR LED		
• NS LED	Yes; green/red LED		
• MS LED	Yes; green/red LED		
• IO LED	Yes; red-green-yellow LED		
Potential separation			
between supply voltage and electronics	Yes; to power input 2		
between Ethernet and electronics	Yes		
Isolation			
Isolation tested with	707 V DC (type test)		
Standards, approvals, certificates			
network separator in accordance with IEC 61784-3-3	Yes		
Network loading class	3		
Ambient conditions			
Ambient temperature during operation			
• min.	-30 °C; No condensation		
• max.	60 °C; = Tmax for horizontal installation; for vertical installation Tmax = 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 section "Climatic and mechanical environmental conditions"		
Mechanics/material			
Strain relief	Yes; Optional, for RJ45 and FC BusAdapter only		
Dimensions			
Width	100 mm		
Height	117 mm		
Depth	74 mm; with mounting rail		
Weights			
Weight, approx.	200 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
ETIM	9	EC001604
ETIM	8	EC001604
ETIM	7	EC001604
IDEA	4	3564
UNSPSC	15	32-15-17-05

Approvals / Certificates

General Product Approval	EMV	Test Certificates	other
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[Confirmation](#)



[Miscellaneous](#)



other	Dangerous goods
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