

TM4PDPS1

network switch module, Modicon M241, 1
Profibus DP slave



Main

Product or Component Type	Profibus DP communication module
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Complementary

Range Compatibility	Modicon M251 Modicon M241
Product compatibility	Modicon M241 logic controller Modicon M251 logic controller
Current consumption	290 mA 5 V DC communication bus
Power dissipation in W	1.5 W
Integrated connection type	Profibus DP female SUB-D 9
Transmission rate	1.5 Mbit/s 656.17 ft (200 m) 500 kbit/s 1312.34 ft (400 m) 187.5 kbit/s 3280.84 ft (1000 m) 9.6...93.75 kbit/s 3937.01 ft (1200 m) 3...12 Mbit/s 328.08 ft (100 m)
Communication port protocol	Profibus DP V0 Profibus DP V1
Insulation	Between bus and internal logic 1000 V DC
Local signalling	For power supply 1 LED (green/yellow) For communication 1 LED (green/red)
Electrical connection	Screw connector terminal for connecting the functional ground SUB-D 9 1 female connector for connecting Profibus
Marking	CE
Surge withstand	1 KV power lines (DC) common mode IEC 61000-4-5 2 KV power lines (AC) common mode IEC 61000-4-5 2 KV relay output common mode IEC 61000-4-5 1 KV I/O common mode IEC 61000-4-5 1 KV shielded cable common mode IEC 61000-4-5 0.5 KV power lines (DC) differential mode IEC 61000-4-5 1 KV power lines (AC) differential mode IEC 61000-4-5 1 KV relay output differential mode IEC 61000-4-5 0.5 kv I/O differential mode IEC 61000-4-5
Mounting support	Top hat type TH35-15 rail IEC 60715 Top hat type TH35-7.5 rail IEC 60715 Plate or panel with fixing kit
Width	0.98 in (25 mm)
Height	3.54 in (90 mm)
Depth	3.54 in (90 mm)
Net Weight	0.22 lb(US) (0.1 kg)

The information provided in this documentation contains general descriptions and/or technical characteristics of the performance of the products contained herein. This documentation is not intended as a substitute for and is not to be used for determining suitability or reliability of these products for specific user applications. It is the duty of any such user or integrator to perform the appropriate and complete risk analysis, evaluation and testing of the products with respect to the relevant specific application or use thereof. Neither Schneider Electric Industries SAS nor any of its affiliates or subsidiaries shall be responsible or liable for misuse of the information contained herein.

Environment

Standards	IEC 61131-2 UL 508 EIA-485
Product Certifications	C-tick[RETURN]cULus
Resistance to electrostatic discharge	8 KV in air IEC 61000-4-2 4 KV on contact IEC 61000-4-2 8 KV in air Marine specification (LR, ABS, DNV, GL) 6 kV on contact Marine specification (LR, ABS, DNV, GL)
Resistance to electromagnetic fields	9.14 V/M (10 V/m) 80 MHz...1 GHz IEC 61000-4-3 2.74 V/M (3 V/m) 1.4 GHz...2 GHz IEC 61000-4-3 0.91 V/m (1 V/m) 2...2.7 GHz IEC 61000-4-3
Resistance to fast transients	2 KV IEC 61000-4-4 power lines) 2 KV IEC 61000-4-4 relay output) 1.5 KV IEC 61000-4-4 I/O) 1 KV IEC 61000-4-4 Ethernet line) 1 kV IEC 61000-4-4 serial link)
Resistance to conducted disturbances	10 V 0.15...80 MHz IEC 61000-4-6 3 V 0.1...80 MHz Marine specification (LR, ABS, DNV, GL) 10 V spot frequency (2, 3, 4, 6.2, 8.2, 12.6, 16.5, 18.8, 22, 25 MHz) Marine specification (LR, ABS, DNV, GL)
Electromagnetic emission	Conducted emissions 79 dB μ V/m QP/66 dB μ V/m AV power lines (AC))0.15... 0.5 MHz IEC 55011 Conducted emissions 73 dB μ V/m QP/60 dB μ V/m AV power lines (AC))0.5... 300 MHz IEC 55011 Conducted emissions 120...69 dB μ V/m QP power lines)10...150 kHz IEC 55011 Conducted emissions 63 dB μ V/m QP power lines)1.5...30 MHz IEC 55011 Radiated emissions 40 dB μ V/m QP class A30...230 MHz IEC 55011 Radiated emissions 60...54 dB μ V/m QP30...100 MHz Marine specification (LR, ABS, DNV, GL) Radiated emissions 24 dB μ V/m QP156...165 MHz Marine specification (LR, ABS, DNV, GL) Conducted emissions 79...63 dB μ V/m QP power lines)150...1500 kHz IEC 55011 Radiated emissions 47 dB μ V/m QP class A230...1000 MHz IEC 55011 Radiated emissions 80...50 dB μ V/m QP150...30000 kHz Marine specification (LR, ABS, DNV, GL) Radiated emissions 54 dB μ V/m QP100...2000 MHz Marine specification (LR, ABS, DNV, GL)
Ambient Air Temperature for Operation	14...131 °F (-10...55 °C) horizontal installation 14...122 °F (-10...50 °C) vertical installation
Ambient Air Temperature for Storage	-13...158 °F (-25...70 °C)
Relative humidity	10...95 %, without condensation in operation) 10...95 %, without condensation in storage)
IP degree of protection	IP20 with protective cover in place
Pollution degree	2
Operating altitude	0...6561.68 ft (0...2000 m)
Storage altitude	0.00...9842.52 ft (0...3000 m)
Vibration resistance	1 mm 5...13.2 Hz symmetrical rail 3 gn 8.7...150 Hz symmetrical rail 1 mm 5...13.2 Hz panel mounting 0.7 gn 13.2...100 Hz panel mounting
Shock resistance	15 gn 11 ms

Ordering and shipping details

Category	22533-M2XX PLC & ACCESSORIES
Discount Schedule	MSX
GTIN	3606480649066
Returnability	No
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	6.69 in (17.0 cm)
Package 1 Width	4.33 in (11.0 cm)
Package 1 Length	2.13 in (5.4 cm)
Package 1 Weight	7.41 oz (210.0 g)
Unit Type of Package 2	S03
Number of Units in Package 2	34
Package 2 Height	11.81 in (30 cm)
Package 2 Width	11.81 in (30 cm)
Package 2 Length	15.75 in (40 cm)
Package 2 Weight	15.76 lb(US) (7.15 kg)

Offer Sustainability

Sustainable offer status	Green Premium product
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov
REACH Regulation	REACH Declaration
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
Mercury free	Yes
China RoHS Regulation	China RoHS Declaration
RoHS exemption information	Yes
Environmental Disclosure	Product Environmental Profile
Circularity Profile	End Of Life Information
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.
PVC free	Yes