

Product data sheet

Specifications



network switch module, Modicon M241, 1 Profibus DP slave

TM4PDPS1

Product availability: Non-Stock - Not normally stocked in distribution facility

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 656.2 ft (200 m) 500 kbit/s 1312.3 ft (400 m) 187.5 kbit/s 3280.8 ft (1000 m) 9.6...93.75 kbit/s 3937.008 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	1 LED (green/yellow) for power supply 1 LED (green/red) for communication
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	1.0 in (25 mm)
Height	3.5 in (90 mm)
Depth	3.5 in (90 mm)
Product Weight	0.2 lb(US) (0.1 kg)

Environment

Price is "List Price" and may be subject to a trade discount – check with your local distributor or retailer for actual price.

Disclaimer: 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

Standards	IEC 61131-2 UL 508 EIA-485
Product Certifications	C-tick 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	9.1 V/m (10 V/m) 80 MHz...1 GHz IEC 61000-4-3 2.7 V/m (3 V/m) 1.4 GHz...2 GHz IEC 61000-4-3 0.9 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 dBµV/m QP/66 dBµV/m AV power lines (AC))0.15...0.5 MHz IEC 55011 Conducted emissions 73 dBµV/m QP/60 dBµV/m AV power lines (AC))0.5...300 MHz IEC 55011 Conducted emissions 120...69 dBµV/m QP power lines)10...150 kHz IEC 55011 Conducted emissions 63 dBµV/m QP power lines)1.5...30 MHz IEC 55011 Radiated emissions 40 dBµV/m QP class A30...230 MHz IEC 55011 Radiated emissions 60...54 dBµV/m QP30...100 MHz Marine specification (LR, ABS, DNV, GL) Radiated emissions 24 dBµV/m QP156...165 MHz Marine specification (LR, ABS, DNV, GL) Conducted emissions 79...63 dBµV/m QP power lines)150...1500 kHz IEC 55011 Radiated emissions 47 dBµV/m QP class A230...1000 MHz IEC 55011 Radiated emissions 80...50 dBµV/m QP150...30000 kHz Marine specification (LR, ABS, DNV, GL) Radiated emissions 54 dBµV/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...9842.5 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	US10MSX22533
Discount Schedule	0MSX
GTIN	3606480649066
Returnability	No

Country of origin	ID
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Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	2.205 in (5.600 cm)
Package 1 Width	4.528 in (11.500 cm)
Package 1 Length	6.693 in (17.000 cm)
Package weight(Lbs)	6.702 oz (190.000 g)
Unit Type of Package 2	S03
Number of Units in Package 2	20
Package 2 Height	11.811 in (30.000 cm)
Package 2 Width	11.811 in (30.000 cm)
Package 2 Length	15.748 in (40.000 cm)
Package 2 Weight	9.872 lb(US) (4.478 kg)

Contractual warranty

Warranty (in months)	18
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Environmental Data

Schneider Electric aims to achieve Net Zero status by 2050 through supply chain partnerships, lower impact materials, and circularity via our ongoing “Use Better, Use Longer, Use Again” campaign to extend product lifetimes and recyclability.

[Environmental Data explained >](#)

[How we assess product sustainability >](#)



Environmental footprint

Total lifecycle Carbon footprint	96 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	25 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	71 kg CO2 eq.
Carbon footprint of the end-of-life phase [C1 to C4]	0.3 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile

Use Better



Materials and Substances

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
SCIP Number	253016c1-904d-4e0e-b7bd-38e34c360f7a
EU RoHS Directive	Compliant By Exemption
REACH Regulation	Reference contains Substances of Very High Concern above the threshold
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
PVC free	Yes

Use Longer



Lifetime extension

Repair	No
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Use Again



Repack and remanufacture

Recyclability potential, in %	0
Circularity Profile	End of Life Information
Take-back	No
WEEE Label	 The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.

