

Product data sheet

Specifications



module network TM4 1 Profibus DP slave

TM4PDPS1

Product availability : Stock - Normally stocked in distribution facility

Price* : 249.00 USD

Main

Product or Component Type Profibus DP communication module

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 EN/IEC 61000-4-5
2 kV power lines (AC) common mode EN/IEC 61000-4-5
2 kV relay output common mode EN/IEC 61000-4-5
1 kV I/O common mode EN/IEC 61000-4-5
1 kV shielded cable common mode EN/IEC 61000-4-5
0.5 kV power lines (DC) differential mode EN/IEC 61000-4-5
1 kV power lines (AC) differential mode EN/IEC 61000-4-5
1 kV relay output differential mode EN/IEC 61000-4-5
0.5 kV I/O differential mode EN/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)

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

Environment

Standards	EN/IEC 61131-2 UL 508 EIA-485
Product Certifications	C-tick cULus
Resistance to electrostatic discharge	8 kV in air EN/IEC 61000-4-2 4 kV on contact EN/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 EN/IEC 61000-4-3 2.74 V/m (3 V/m) 1.4 GHz...2 GHz EN/IEC 61000-4-3 0.91 V/m (1 V/m) 2...2.7 GHz EN/IEC 61000-4-3
Resistance to fast transients	2 kV EN/IEC 61000-4-4 power lines) 2 kV EN/IEC 61000-4-4 relay output) 1.5 kV EN/IEC 61000-4-4 I/O) 1 kV EN/IEC 61000-4-4 Ethernet line) 1 kV EN/IEC 61000-4-4 serial link)
Resistance to conducted disturbances	10 V 0.15...80 MHz EN/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 EN/IEC 55011 Conducted emissions 73 dB μ V/m QP/60 dB μ V/m AV power lines (AC))0.5...300 MHz EN/IEC 55011 Conducted emissions 120...69 dB μ V/m QP power lines)10...150 kHz EN/IEC 55011 Conducted emissions 63 dB μ V/m QP power lines)1.5...30 MHz EN/IEC 55011 Radiated emissions 40 dB μ V/m QP class A30...230 MHz EN/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 EN/IEC 55011 Radiated emissions 47 dB μ V/m QP class A230...1000 MHz EN/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
Nbr. of units in pkg.	1
Package weight(Lbs)	7.41 oz (210.0 g)
Returnability	No
Country of origin	ID

Packing Units

Unit Type of Package 1	PCE
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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)
Unit Type of Package 2	S03
Number of Units in Package 2	20
Package 2 Weight	9.55 lb(US) (4.33 kg)
Package 2 Height	11.81 in (30.0 cm)
Package 2 width	11.81 in (30.0 cm)
Package 2 Length	15.75 in (40.0 cm)

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) EU RoHS Declaration
Mercury free	Yes
RoHS exemption information	Yes
China RoHS Regulation	China RoHS declaration
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