

network switch module, Modicon M241, 1 Profibus DP slave

TM4PDPS1

Main

Product Or Component Type	Profibus DP communication module	
Froduct of Component Type	Profibus DP communication module	

Complementary

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Range Compatibility	Modicon M251 Modicon M241
Product Compatibility	Modicon M241 logic controller Modicon M251 logic controller
Current Consumption	290 mA at 5 V DC for communication bus
Power Dissipation In W	1.5 W
Integrated Connection Type	Profibus DP: female SUB-D 9 connector
Transmission Rate	1.5 Mbit/s for bus length of 200 m 500 kbit/s for bus length of 400 m 187.5 kbit/s for bus length of 1000 m 9.693.75 kbit/s for bus length of 1200 m 312 Mbit/s for bus length of 100 m
Communication Port Protocol	Profibus DP V0 Profibus DP V1
Insulation	Between bus and internal logic at 1000 V DC
Local Signalling	LED (green/yellow) for power supply 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 conforming to IEC 61000-4-5 2 kV power lines (AC) common mode conforming to IEC 61000-4-5 2 kV relay output common mode conforming to IEC 61000-4-5 1 kV I/O common mode conforming to IEC 61000-4-5 1 kV shielded cable common mode conforming to IEC 61000-4-5 0.5 kV power lines (DC) differential mode conforming to IEC 61000-4-5 1 kV power lines (AC) differential mode conforming to IEC 61000-4-5 1 kV relay output differential mode conforming to IEC 61000-4-5 0.5 kV I/O differential mode conforming to IEC 61000-4-5
Mounting Support	Top hat type TH35-15 rail conforming to IEC 60715 Top hat type TH35-7.5 rail conforming to IEC 60715 plate or panel with fixing kit
Width	25 mm
Height	90 mm
Depth	90 mm
Net Weight	0.1 kg

Environment

Standards	IEC 61131-2
Ctandards	UL 508
	EIA-485
Product Certifications	C-Tick cULus
Resistance To Electrostatic	9 kV in air conforming to IEC 61000 4.2
Discharge	8 kV in air conforming to IEC 61000-4-2 4 kV on contact conforming to IEC 61000-4-2
	8 kV in air conforming to Marine specification (LR, ABS, DNV, GL)
	6 kV on contact conforming to Marine specification (LR, ABS, DNV, GL)
Resistance To Electromagnetic	10 V/m 80 MHz1 GHz conforming to IEC 61000-4-3
Fields	3 V/m 1.4 GHz2 GHz conforming to IEC 61000-4-3
	1 V/m 22.7 GHz conforming to IEC 61000-4-3
Resistance To Fast Transients	2 kV (power lines) conforming to IEC 61000-4-4
	2 kV (relay output) conforming to IEC 61000-4-4
	1.5 kV (I/O) conforming to IEC 61000-4-4 1 kV (Ethernet line) conforming to IEC 61000-4-4
	1 kV (serial link) conforming to IEC 61000-4-4
Resistance To Conducted	10 V 0.1580 MHz conforming to IEC 61000-4-6
Disturbances	3 V 0.180 MHz conforming to 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) conforming to
	Marine specification (LR, ABS, DNV, GL)
Electromagnetic Emission	Conducted emissions - test level: 79 dBμV/m QP/66 dBμV/m AV (power lines (AC))
	at 0.150.5 MHz conforming to IEC 55011
	Conducted emissions - test level: 73 dBμV/m QP/60 dBμV/m AV (power lines (AC))
	at 0.5300 MHz conforming to IEC 55011 Conducted emissions - test level: 12069 dBµV/m QP (power lines) at 10150 kHz
	conforming to IEC 55011
	Conducted emissions - test level: 63 dBµV/m QP (power lines) at 1.530 MHz
	conforming to IEC 55011
	Radiated emissions - test level: 40 dBµV/m QP class A at 30230 MHz conforming to IEC 55011
	Radiated emissions - test level: 6054 dBµV/m QP at 30100 MHz conforming to
	Marine specification (LR, ABS, DNV, GL)
	Radiated emissions - test level: 24 dBµV/m QP at 156165 MHz conforming to
	Marine specification (LR, ABS, DNV, GL) Conducted emissions - test level: 7963 dBμV/m QP (power lines) at 1501500
	kHz conforming to IEC 55011
	Radiated emissions - test level: 47 dBμV/m QP class A at 2301000 MHz
	conforming to IEC 55011 Redicted emissions toot level: 90, 50 du//m OR at 150, 30000 kHz conforming to
	Radiated emissions - test level: 8050 dµV/m QP at 15030000 kHz conforming to Marine specification (LR, ABS, DNV, GL)
	Radiated emissions - test level: 54 dBµV/m QP at 1002000 MHz conforming to
	Marine specification (LR, ABS, DNV, GL)
Ambient Air Temperature For	-1055 °C horizontal installation
Operation	-1050 °C vertical installation
Ambient Air Temperature For	-2570 °C
Storage	
Relative Humidity	1095 %, without condensation (in operation)
	1095 %, without condensation (in storage)
Ip Degree Of Protection	IP20 with protective cover in place
Pollution Degree	2
Operating Altitude	02000 m
Storage Altitude	03000 m
Vibration Resistance	1 mm at 513.2 Hz on symmetrical rail
	3 gn at 8.7150 Hz on symmetrical rail
	1 mm at 513.2 Hz on panel mounting 0.7 gn at 13.2100 Hz on panel mounting
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Shock Resistance	15 gn for 11 ms
Packing Units	
Unit Type Of Package 1	PCE
Number Of Units In Package 1	1

Package 1 Height	17.0 cm
Package 1 Width	11.0 cm
Package 1 Length	5.4 cm
Package 1 Weight	210.0 g
Unit Type Of Package 2	S03
Number Of Units In Package 2	34
Package 2 Height	30 cm
Package 2 Width	30 cm
Package 2 Length	40 cm
Package 2 Weight	7.15 kg

Sustainability

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Guide to assess a product's sustainability >





Transparency RoHS/REACh

Well-being performance

Mercury Free

Rohs Exemption Information

Vac



Pvc Free

Certifications & Standards

Reach Regulation	REACh Declaration
Eu Rohs Directive	Pro-active compliance (Product out of EU RoHS legal scope)
China Rohs Regulation	China RoHS declaration
Environmental Disclosure	Product Environmental Profile
Weee	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins
Weee Circularity Profile	