

network switch module, Modicon M241, 4 Ethernet switchs

TM4ES4

Ethernet unmanaged switch

SNMP

Modbus TCP client Downloading Updating firmware Ethernet/IP slave device DHCP client

8 Modbus server

Product availability: Stock - Normally stocked in distribution facility

Main

Product or Component Type

Complementary

Maximum number of connections

Range Compatibility Modicon M251 Modicon M241 **Product compatibility** Modicon M241 logic controller Modicon M251 logic controller **Current consumption** 360 mA 5 V DC communication bus Integrated connection type Ethernet 4 RJ45 Transmission rate 10/100 Mbit/s Port Ethernet 10BASE-T/100BASE-TX - 4 copper cable Web services Web server **Communication Service** Modbus TCP server Modbus TCP slave device FTP NGVL Monitoring IEC VAR ACCESS Programming

	16 Ethernet/IP device	
Communication Port Protocol	Ethernet IP/Modbus TCP TCP (Transmission Control Protocol) UDP (User Datagram Protocol) SNMP	
Redundancy	No	
Local signalling	LED (green) for PWR LED per channel (green/yellow) for Ethernet link LED per channel (green) for Ethernet port activity	
Electrical connection	RJ45 4 connectors for connecting Ethernet network Screw connector terminal for connecting the functional ground	
Marking	CE	

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

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)	
Net Weight	0.276 lb(US) (0.125 kg)	
Environment		
Standards	UL 508 IEC 61131-2	
Product Certifications	cULus C-tick	
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 MHz1 GHz IEC 61000-4-3 2.7 V/m (3 V/m) 1.4 GHz2 GHz IEC 61000-4-3 0.9 V/m (1 V/m) 22.7 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 0.1580 MHz IEC 61000-4-6 3 V 0.180 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))0.150.5 MHz IEC 55011 Conducted emissions 73 dBμV/m QP/60 dBμV/m AV power lines (AC))0.5300 MHz IEC 55011 Conducted emissions 12069 dBμV/m QP power lines)10150 kHz IEC 55011 Conducted emissions 63 dBμV/m QP power lines)1.530 MHz IEC 55011 Radiated emissions 40 dBμV/m QP class A30230 MHz IEC 55011 Radiated emissions 6054 dBμV/m QP30100 MHz Marine specification (LR, ABS, DNV, GL) Radiated emissions 24 dBμV/m QP156165 MHz Marine specification (LR, ABS, DNV, GL) Conducted emissions 7963 dBμV/m QP power lines)1501500 kHz IEC 55011 Radiated emissions 47 dBμV/m QP class A2301000 MHz IEC 55011 Radiated emissions 8050 dμV/m QP15030000 kHz Marine specification (LR, ABS, DNV, GL) Radiated emissions 54 dBμV/m QP1002000 MHz Marine specification (LR, ABS, DNV, GL)	
Ambient Air Temperature for Operation	14131 °F (-1055 °C) horizontal installation 14122 °F (-1050 °C) vertical installation	
Ambient Air Temperature for Storage	-13158 °F (-2570 °C)	
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	06561.68 ft (02000 m)	
Storage altitude	09842.5 ft (03000 m)	
Vibration resistance	1 mm 513.2 Hz symmetrical rail 3 gn 8.7150 Hz symmetrical rail 1 mm 513.2 Hz panel mounting 0.7 gn 13.2100 Hz panel mounting	
Shock resistance	15 gn 11 ms	

Ordering and shipping details

Category	US10MSX22533
Discount Schedule	0MSX
GTIN	3606480611216
Returnability	Yes
Country of origin	ID

Packing Units

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Unit Type of Package 1	PCE	
Number of Units in Package 1	1	
Package 1 Height	2.22 in (5.635 cm)	
Package 1 Width	4.54 in (11.532 cm)	
Package 1 Length	6.71 in (17.033 cm)	
Package 1 Weight	7.4 oz (210.0 g)	
Unit Type of Package 2	S03	
Number of Units in Package 2	20	
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	11.11 lb(US) (5.04 kg)	
Unit Type of Package 3	P06	
Number of Units in Package 3	160	
Package 3 Height	29.53 in (75 cm)	
Package 3 Width	23.62 in (60 cm)	
Package 3 Length	31.50 in (80 cm)	
Package 3 Weight	105.8 lb(US) (48 kg)	



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	
Carbon footprint (kg CO2 eq, Total Life cycle)	96
Environmental Disclosure	Product Environmental Profile

Use Better

Packaging made with recycled cardboard	Yes
Packaging without single use plastic	Yes
EU RoHS Directive	Pro-active compliance (Product out of EU RoHS legal scope)
SCIP Number	5f9bf620-80e3-4249-adf7-f86659e9a73e
REACh Regulation	REACh Declaration
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 Again

○ Repack and remanufacture	
Circularity Profile	End of Life Information
Take-back	No
WEEE	The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins.