Product data sheet

Specifications





network switch module, Modicon M241, 4 Ethernet switchs

TM4ES4

Product availability: Stock - Normally stocked in distribution facility

Price*: 149.00 USD

Main

Product Or Component Type

Ethernet unmanaged switch

Complementary

Compromontary		
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 SNMP Modbus TCP client Downloading Updating firmware Ethernet/IP slave device DHCP client	
Maximum Number Of Connections	8 Modbus server 16 Ethernet/IP device	
Communication Port Protocol	Ethernet IP/Modbus TCP TCP (Transmission Control Protocol) UDP (User Datagram Protocol) SNMP	
Redundancy	No	
Local Signalling	for PWR 1 LED (green) for Ethernet link 1 LED per channel (green/yellow) for Ethernet port activity 1 LED per channel (green)	
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	0.98 in (25 mm)
Height	3.54 in (90 mm)
Depth	3.54 in (90 mm)
Net Weight	0.28 lb(US) (0.125 kg)

Environment

Standards	UL 508
	IEC 61131-2
Product Certifications	cULus
	C-tick
Resistance To Electrostatic	8 kV in air IEC 61000-4-2
Discharge	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	9.14 V/m (10 V/m) 80 MHz1 GHz IEC 61000-4-3
Fields	2.74 V/m (3 V/m) 1.4 GHz2 GHz IEC 61000-4-3
	0.91 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	10 V 0.1580 MHz IEC 61000-4-6
Disturbances	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 A30…230 MHz IEC 55011
	Radiated emissions 6054 dBµV/m QP30100 MHz Marine specification (LR, ABS,
	DNV, GL) Rediated emissions 24 dBuV/m OD456 _ 165 MHz Marine encotification (LD_ARS
	Radiated emissions 24 dBµV/m QP156…165 MHz Marine specification (LR, ABS, DNV, GL)
	Conducted emissions 7963 dBµV/m QP power lines)1501500 kHz IEC 55011
	Radiated emissions 47 dB μ V/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	14131 °F (-1055 °C) horizontal installation
Operation	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	0.009842.52 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	OMSX	
Gtin	3606480611216	
Returnability	Yes	
Country Of Origin	ID	

Packing Units

Unit Type Of Package 1PCENumber Of Units In Package 11Package 1 Height2.22 in (5.635 cm)Package 1 Width4.54 in (11.532 cm)Package 1 Length6.71 in (17.033 cm)Package 1 Weight7.41 oz (210.0 g)Unit Type Of Package 2S03Number Of Units In Package 220Package 2 Height11.81 in (30 cm)Package 2 Width11.81 in (30 cm)Package 2 Length15.75 in (40 cm)Package 2 Weight11.11 lb(US) (5.04 kg)Unit Type Of Package 3P06Number Of Units In Package 3160Package 3 Height23.62 in (60 cm)Package 3 Length31.50 in (80 cm)Package 3 Weight105.82 lb(US) (48 ka)	-		
Package 1 Height2.22 in (5.635 cm)Package 1 Width4.54 in (11.532 cm)Package 1 Length6.71 in (17.033 cm)Package 1 Weight7.41 oz (210.0 g)Unit Type Of Package 2S03Number Of Units In Package 220Package 2 Height11.81 in (30 cm)Package 2 Width11.81 in (30 cm)Package 2 Length15.75 in (40 cm)Package 2 Weight11.11 lb(US) (5.04 kg)Unit Type Of Package 3P06Number Of Units In Package 3160Package 3 Height29.53 in (75 cm)Package 3 Width23.62 in (60 cm)Package 3 Length31.50 in (80 cm)	Unit Type Of Package 1	PCE	
Package 1 Width4.54 in (11.532 cm)Package 1 Length6.71 in (17.033 cm)Package 1 Weight7.41 oz (210.0 g)Unit Type Of Package 2S03Number Of Units In Package 220Package 2 Height11.81 in (30 cm)Package 2 Width11.81 in (30 cm)Package 2 Length15.75 in (40 cm)Package 2 Weight11.11 lb(US) (5.04 kg)Unit Type Of Package 3P06Number Of Units In Package 3160Package 3 Width23.62 in (60 cm)Package 3 Length31.50 in (80 cm)	Number Of Units In Package 1	1	
Package 1 Length6.71 in (17.033 cm)Package 1 Weight7.41 oz (210.0 g)Unit Type Of Package 2S03Number Of Units In Package 220Package 2 Height11.81 in (30 cm)Package 2 Weight11.81 in (30 cm)Package 2 Length15.75 in (40 cm)Package 2 Weight11.11 lb(US) (5.04 kg)Unit Type Of Package 3P06Number Of Units In Package 3160Package 3 Height29.53 in (75 cm)Package 3 Width23.62 in (60 cm)Package 3 Length31.50 in (80 cm)	Package 1 Height	2.22 in (5.635 cm)	
Package 1 Weight7.41 oz (210.0 g)Unit Type Of Package 2S03Number Of Units In Package 220Package 2 Height11.81 in (30 cm)Package 2 Width11.81 in (30 cm)Package 2 Length15.75 in (40 cm)Package 2 Weight11.11 lb(US) (5.04 kg)Unit Type Of Package 3P06Number Of Units In Package 3160Package 3 Height29.53 in (75 cm)Package 3 Width23.62 in (60 cm)Package 3 Length31.50 in (80 cm)	Package 1 Width	4.54 in (11.532 cm)	
Unit Type Of Package 2S03Number Of Units In Package 220Package 2 Height11.81 in (30 cm)Package 2 Width11.81 in (30 cm)Package 2 Length15.75 in (40 cm)Package 2 Weight11.11 lb(US) (5.04 kg)Unit Type Of Package 3P06Number Of Units In Package 3160Package 3 Height29.53 in (75 cm)Package 3 Width23.62 in (60 cm)Package 3 Length31.50 in (80 cm)	Package 1 Length	6.71 in (17.033 cm)	
Number Of Units In Package 220Package 2 Height11.81 in (30 cm)Package 2 Width11.81 in (30 cm)Package 2 Length15.75 in (40 cm)Package 2 Weight11.11 lb(US) (5.04 kg)Unit Type Of Package 3P06Number Of Units In Package 3160Package 3 Height29.53 in (75 cm)Package 3 Width23.62 in (60 cm)Package 3 Length31.50 in (80 cm)	Package 1 Weight	7.41 oz (210.0 g)	
Package 2 Height11.81 in (30 cm)Package 2 Width11.81 in (30 cm)Package 2 Length15.75 in (40 cm)Package 2 Weight11.11 lb(US) (5.04 kg)Unit Type Of Package 3P06Number Of Units In Package 3160Package 3 Height29.53 in (75 cm)Package 3 Width23.62 in (60 cm)Package 3 Length31.50 in (80 cm)	Unit Type Of Package 2	\$03	
Package 2 Width11.81 in (30 cm)Package 2 Length15.75 in (40 cm)Package 2 Weight11.11 lb(US) (5.04 kg)Unit Type Of Package 3P06Number Of Units In Package 3160Package 3 Height29.53 in (75 cm)Package 3 Width23.62 in (60 cm)Package 3 Length31.50 in (80 cm)	Number Of Units In Package 2	20	
Package 2 Length15.75 in (40 cm)Package 2 Weight11.11 lb(US) (5.04 kg)Unit Type Of Package 3P06Number Of Units In Package 3160Package 3 Height29.53 in (75 cm)Package 3 Width23.62 in (60 cm)Package 3 Length31.50 in (80 cm)	Package 2 Height	11.81 in (30 cm)	
Package 2 Weight11.11 lb(US) (5.04 kg)Unit Type Of Package 3P06Number Of Units In Package 3160Package 3 Height29.53 in (75 cm)Package 3 Width23.62 in (60 cm)Package 3 Length31.50 in (80 cm)	Package 2 Width	11.81 in (30 cm)	
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 2 Length	15.75 in (40 cm)	
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 2 Weight	11.11 lb(US) (5.04 kg)	
Package 3 Height29.53 in (75 cm)Package 3 Width23.62 in (60 cm)Package 3 Length31.50 in (80 cm)	Unit Type Of Package 3	P06	
Package 3 Width 23.62 in (60 cm) Package 3 Length 31.50 in (80 cm)	Number Of Units In Package 3	160	
Package 3 Length 31.50 in (80 cm)	Package 3 Height	29.53 in (75 cm)	
	Package 3 Width	23.62 in (60 cm)	
Package 3 Weight 105.82 (b(US) (48 kg)	Package 3 Length	31.50 in (80 cm)	
	Package 3 Weight	105.82 lb(US) (48 kg)	

Sustainability Screen Premium

Green PremiumTM label is Schneider Electric's commitment to delivering products with best-inclass environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-CO₂ products.

Guide to assessing product sustainability is a white paper that clarifies global eco-label standards and how to interpret environmental declarations.

Learn more about Green Premium >

Guide to assess a product's sustainability >



Transparency RoHS/REACh

Well-being performance

Mercury Free
Rohs Exemption Information Yes
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.
Circularity Profile	End of Life Information
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