Product data sheet

Specifications

Modicon Managed Switch - 8 ports for copper + 2 ports for fiber optic single-mode - Harsh

MCSESM103F2CS0H

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

Main

Range of Product	Modicon Networking
Product or Component Type	Ethernet TCP/IP managed switch
Product Specific Application	For severe environments
Communication Port Protocol	Ethernet TCP/IP SSH HTTP HTTPS SNMP SFTP SCP LLDP Telnet SNTP Modbus TCP OPC UA IEC 61850 MMS Server
Port Ethernet	100BASE-FX - 2 fiber optic 10/100BASE-TX - 8 copper cable
Maximum number of switches in cascade	Unlimited
Cybersecurity	Port hardening IP-based port security MAC-based port security Port-based access control Role-based access control RADIUS assignment HTTPS DoS prevention VLAN-based ACL Audit trail SNMP logging Pre-login banner TACACS+

Complementary

Integrated connection type	Duplex SC fiber optic Shielded RJ45 copper cable
Transmission support medium	Single mode optical fiber fiber optic Twisted shielded pairs cable CAT 5E copper cable
Maximum cable distance between devices	328.08 ft (100 m) copper cable
Optic fiber length	18.6 mile (30 km) 9/125 µm
Attenuation	0…16 dB 9/125 µm)
Ethernet service	Configuration via web server VLAN Multicast filtering Data stream control IGMP Snooping SNMP-Traps and SYSLOG

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

Communication Service	TFTP Quality of Service (QoS) Port monitoring Port mirroring Address conflict detection
Diagnostics run time	Signal contact Self test MAC notification RSPAN SFLOW
Maximum number of switches in a ring	50
Redundancy	HiPER ring RSTP Link aggregation Link backup Redundant network coupling MRP Redundant coupling protocol MSTP
[Us] rated supply voltage	12...24 V
Supply voltage limits	9.6…32 V DC SELV
Power Consumption in W	8 W
Electrical connection	Removable connector 6 ways power supply
Mounting Support	35 mm symmetrical DIN rail
Marking	CE CULus RCM
Function Available	Security status Alarms (Traps) System information Report
Local signalling	1 dual colour LED (green/yellow) for P1 P2 power supplies 1 dual colour LED (green/red) for device status 1 dual colour LED (green/yellow) for memory key status 1 dual colour LED (green/yellow) for channel diagnostic
Alarm output	1 voltfree contact 1 A
Alarm function	Power supply fault Data link status Switch fault Temperature threshold Redundancy ring fault Incorrect configuration External memory removed
Ethernet cabling system	TF switches
Width	2.9 in (73 mm)
Height	5.6 in (142.8 mm)
Depth	4.6 in (117.6 mm)
Product Weight	1.26 lb(US) (0.57 kg)

Environment

Ambient Air Temperature for Operation	-40…158 °F (-40…70 °C)
Relative Humidity	1…95 % non-condensing
IP Degree of Protection	IP30
Protective treatment	Conformal coating

Directives	2014/35/EU - low voltage directive 2014/30/EU - electromagnetic compatibility
Standards	UL 61010-2-201 EN/IEC 61131-2 IEC 61850-3 IEC 62443-4-2 EN 50121-4
Product certifications	CE UL RCM DNV ATEX EAC UKCA CSA C22-2 No 213 UKEX FCC part 15 class A CCC Ex

Ordering and shipping details

Category	US1PC1118121
Discount Schedule	PC11
GTIN	3606481813848
Returnability	No
Country of origin	DE

Packing Units

Unit Type of Package 1	PCE
Nbr. of units in pkg.	1
Package 1 Height	6.299 in (16.000 cm)
Package 1 Width	5.118 in (13.000 cm)
Package 1 Length	9.252 in (23.500 cm)
Package weight(Lbs)	20.106 oz (570.000 g)
Unit Type of Package 2	S04
Number of Units in Package 2	8
Package 2 Height	11.8 in (30 cm)
Package 2 Width	15.7 in (40 cm)
Package 2 Length	23.6 in (60 cm)
Package 2 Weight	16.054 lb(US) (7.282 kg)
Unit Type of Package 3	P06
Number of Units in Package 3	32
Package 3 Height	29.528 in (75.000 cm)
Package 3 Width	23.622 in (60.000 cm)
Package 3 Length	31.496 in (80.000 cm)
Package 3 Weight	81.853 lb(US) (37.128 kg)

Contractual warranty

Warranty (in months)	18

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	**690 kg CO2 eq.**
Carbon footprint of the manufacturing phase [A1 to A3]	**3 kg CO2 eq.**
Carbon footprint of the distribution phase [A4]	**0.1 kg CO2 eq.**
Carbon footprint of the installation phase [A5]	**0 kg CO2 eq.**
Carbon footprint of the use phase [B2, B3, B4, B6]	**686 kg CO2 eq.**
Carbon footprint of the end-of-life phase [C1 to C4]	**1 kg CO2 eq.**

Use Better

Materials and Substances

Packaging made with recycled cardboard	**Yes**
Packaging without single use plastic	**No**
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**

Use Longer

Lifetime extension

Repair	**No**

Use Again

Repack and remanufacture

Recyclability potential, in %	**0**
Circularity Profile	**End of Life Information**
Take-back	**No**

Dimensions Drawings

Dimensions

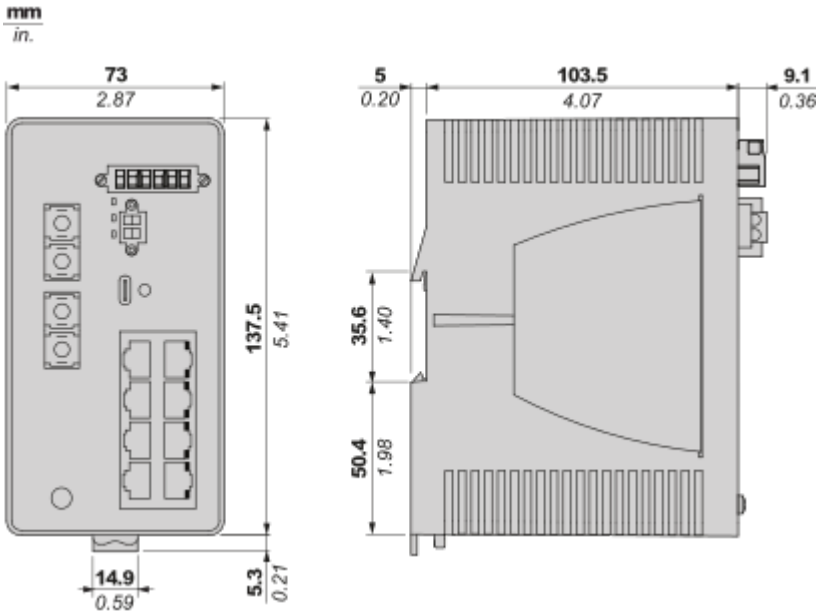

Image of product / Alternate images

Alternative

Schneider Electric
MCSESM103F2CS0H
Modicon
666666666XX NS

Schneider Electric
RELAY
Power
Status
EAM
Input
USB
Modicon Switch