Product data sheet
Characteristics

MCSESM103F2CS1
Modicon Extended Managed Switch - 8 ports for copper + 2 ports for fiber optic single-mode



Main

Range of product	Modicon Networking
Product or component type	Ethernet TCP/IP managed switch
Communication port protocol	Ethernet TCP/IP SSH HTTP HTTPS SNMP SFTP SCP LLDP Telnet SNTP Modbus TCP IEC 61850 MMS Server
Port Ethernet	100BASE-FX - 2 port(s) fiber optic 10/100BASE-TX - 8 port(s) 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

Complementary

Integrated connection type	Duplex SC fiber optic Shielded RJ45 copper cable
Transmission support medium	Single mode optical fiber for fiber optic Twisted shielded pairs cable CAT 5E for copper cable
Maximum cable distance between devices	100 M copper cable
Optic fiber length	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

Communication service	TFTP Quality of Service (QoS) Port monitoring Port mirroring Address conflict detection
Diagnostics run time	Signal contact Self test MAC notification
Maximum number of switches in a ring	50
Redundancy	HiPER ring RSTP Link aggregation Link backup Redundant network coupling MRP Dual RSTP Redundant coupling protocol
[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	73 Mm
Height	142.8 Mm
Depth	117.6 Mm
Net weight	0.50 Kg

Environment

Ambient air temperature for operation	0…60 °C
Relative humidity	1…95 % non-condensing
IP degree of protection	IP30
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[RETURN]UL[RETURN]RCM[RETURN]DNV[RETURN]ATEX[RETURN]EAC[RETURN]UKCA[R

Packing Units

Unit Type of Package 1	PCE
Number of Units in Package 1	1
Package 1 Height	13.000 Cm
Package 1 Width	16.500 Cm
Package 1 Length	24.000 Cm
Package 1 Weight	718.000 G
Unit Type of Package 2	S04
Number of Units in Package 2	8
Package 2 Height	30.000 Cm
Package 2 Width	40.000 Cm
Package 2 Length	60.000 Cm
Package 2 Weight	6.550 Kg

Offer Sustainability

Recyclability potential, in %	0
Total lifecycle Carbon footprint	690 kg CO2 eq.
Carbon footprint of the manufacturing phase [A1 to A3]	3.001108438220628
Carbon footprint of the manufacturing phase [A1 to A3]	3 kg CO2 eq.
Carbon footprint of the distribution phase [A4]	0.0797528932711546
Carbon footprint of the distribution phase [A4]	0.1 kg CO2 eq.
Carbon footprint of the installation phase [A5]	0.00947860728873405
Carbon footprint of the installation phase [A5]	0 kg CO2 eq.
Carbon footprint of the use phase [B2, B3, B4, B6]	685.851519054951
Carbon footprint of the use phase [B2, B3, B4, B6]	686 kg CO2 eq.
Mercury free	Yes
Sustainable packaging	No
Carbon footprint of the end-of-life phase [C1 to C4]	0.9093042886997064
Carbon footprint of the end-of-life phase [C1 to C4]	0.9 kg CO2 eq.
Environmental Disclosure	Product Environmental Profile
Total lifecycle Carbon footprint	690
Packaging made with recycled cardboard	Yes
Packaging without single use plastic	No
REACh Regulation	Reference contains Substances of Very High Concern above the threshold
EU RoHS Directive	Compliant By Exemption
California proposition 65	WARNING: This product can expose you to chemicals including: Lead and lead compounds, w
End of life manual availability	End Of Life Information
Take-back	No

Contractual warranty

Warranty (in months)	18

Product Life Status : Commercialised