

# Product data sheet

Specifications



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

MCSESM103F2CS0H

### 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<br>SSH<br>HTTP<br>HTTPS<br>SNMP<br>RS232<br>SFTP<br>SCP<br>LLDP<br>Telnet<br>SNTP                                                                                                                                                  |
| Port Ethernet                         | 100BASE-FX - 2 port(s) fiber optic<br>10/100BASE-TX - 8 port(s) copper cable                                                                                                                                                                       |
| Maximum number of switches in cascade | Unlimited                                                                                                                                                                                                                                          |
| Cybersecurity                         | Port hardening<br>IP-based port security<br>MAC-based port security<br>Port-based access control<br>Role-based access control<br>RADIUS assignment<br>HTTPS<br>DoS prevention<br>VLAN-based ACL<br>Audit trail<br>SNMP logging<br>Pre-login banner |

### Complementary

|                                        |                                                                                                                              |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Integrated connection type             | Duplex SC fiber optic<br>Shielded RJ45 copper cable                                                                          |
| Transmission support medium            | Single mode optical fiber for fiber optic<br>Twisted shielded pairs cable CAT 5E for copper cable                            |
| Maximum cable distance between devices | 100 m copper cable                                                                                                           |
| Optic fiber length                     | 32.5 km 9/125 µm                                                                                                             |
| Attenuation                            | 0...16 dB (9/125 µm)                                                                                                         |
| Ethernet service                       | Configuration via web server<br>VLAN<br>Multicast filtering<br>Data stream control<br>IGMP Snooping<br>SNMP-Traps and SYSLOG |

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<br>Quality of Service (QoS)<br>Port monitoring<br>Port mirroring<br>Address conflict detection                                                                                                                               |
| Diagnostics run time                 | Signal contact<br>Self test<br>MAC notification                                                                                                                                                                                   |
| Maximum number of switches in a ring | 50                                                                                                                                                                                                                                |
| Redundancy                           | HiPER ring<br>RSTP<br>Link aggregation<br>Link backup<br>Redundant network coupling<br>MRP                                                                                                                                        |
| [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<br>CULus<br>RCM                                                                                                                                                                                                                |
| Function available                   | Security status<br>Alarms (Traps)<br>System information<br>Report                                                                                                                                                                 |
| Local signalling                     | 1 dual colour LED (green/yellow) for P1 P2 power supplies<br>1 dual colour LED (green/red) for device status<br>1 dual colour LED (green/yellow) for memory key status<br>1 dual colour LED (green/yellow) for channel diagnostic |
| Alarm output                         | 1 voltfree contact 1 A                                                                                                                                                                                                            |
| Alarm function                       | Power supply fault<br>Data link status<br>Switch fault<br>Temperature threshold<br>Redundancy ring fault<br>Incorrect configuration<br>External memory removed                                                                    |
| Ethernet cabling system              | TF switches                                                                                                                                                                                                                       |
| Width                                | 73 mm                                                                                                                                                                                                                             |
| Height                               | 142.8 mm                                                                                                                                                                                                                          |
| Depth                                | 117.6 mm                                                                                                                                                                                                                          |
| Product weight                       | 0.57 kg                                                                                                                                                                                                                           |

## Environment

|                                       |                                                                                  |
|---------------------------------------|----------------------------------------------------------------------------------|
| Ambient air temperature for operation | -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<br>2014/30/EU - electromagnetic compatibility |

|                        |                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------|
| Standards              | UL 61010-2-201<br>EN/IEC 61131-2<br>EN/IEC 62368-1<br>IEC 61850-3<br>IEC 62443-4-2<br>EN 50121-4 |
| Product certifications | CE<br>UL<br>RCM<br>DNV<br>ATEX<br>EAC<br>UKCA<br>CSA C22-2 No 213<br>UKEX                        |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 16.000 cm |
| Package 1 Width              | 13.000 cm |
| Package 1 Length             | 23.500 cm |
| Package 1 Weight             | 570.000 g |
| Unit Type of Package 2       | S04       |
| Number of Units in Package 2 | 8         |
| Package 2 Height             | 30 cm     |
| Package 2 Width              | 40 cm     |
| Package 2 Length             | 60 cm     |
| Package 2 Weight             | 7.282 kg  |
| Unit Type of Package 3       | P06       |
| Number of Units in Package 3 | 32        |
| Package 3 Height             | 75.000 cm |
| Package 3 Width              | 60.000 cm |
| Package 3 Length             | 80.000 cm |
| Package 3 Weight             | 37.128 kg |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|

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  |                                               |
|--------------------------|-----------------------------------------------|
| Environmental Disclosure | <a href="#">Product Environmental Profile</a> |

Use Better

| Materials and Substances               |                                                                                                                                                                                                                                                                                             |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Packaging made with recycled cardboard | Yes                                                                                                                                                                                                                                                                                         |
| Packaging without single use plastic   | No                                                                                                                                                                                                                                                                                          |
| <a href="#">EU RoHS Directive</a>      | Pro-active compliance (Product out of EU RoHS legal scope)                                                                                                                                                                                                                                  |
| REACH Regulation                       | <a href="#">REACH Declaration</a>                                                                                                                                                                                                                                                           |
| 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 <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |

Use Again

| Repack and remanufacture        |                                         |
|---------------------------------|-----------------------------------------|
| End of life manual availability | <a href="#">End of Life Information</a> |
| Take-back                       | No                                      |

Dimensions Drawings

Dimensions

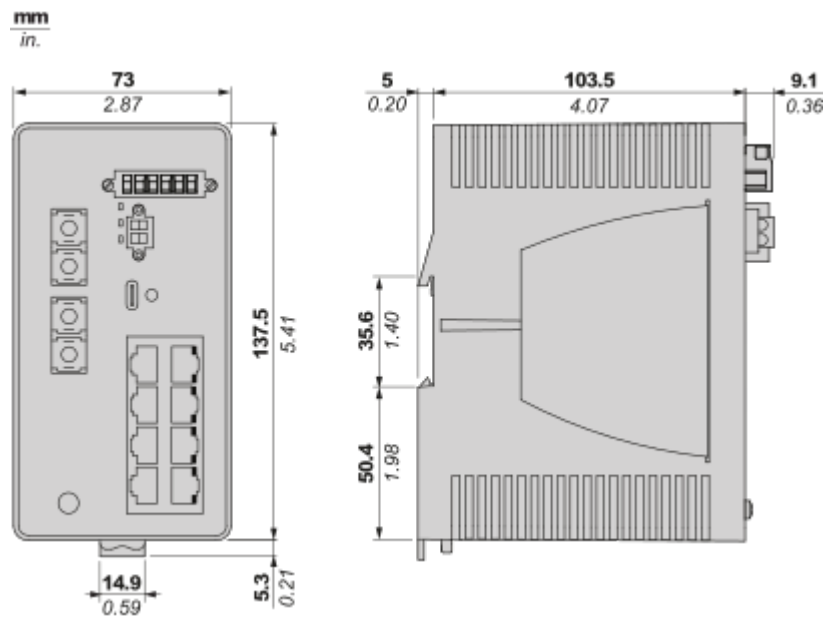


Image of product / Alternate images

### Alternative

