# Product data sheet

Specifications

## network switch, Modicon Networking, managed, 4 ports for copper with 1 port for fiber optic, multimode

MCSESM053F1CU0

## Main

| | |
|---|---|
| **Range Of Product** | Modicon |
| **Product Or Component Type** | Ethernet TCP/IP managed switch |
| **Concept** | Transparent Ready |
| **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 - 1 port(s) fiber optic<br>10/100BASE-TX - 4 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** | Multimode 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** | 4 km 62.5/125 µm<br>5 km 50/125 µm |
| **Attenuation** | 0…11 dB (62.2/125 µm)<br>0…8 dB (50/125 µm) |
| **Ethernet Service** | Configuration via web server<br>VLAN<br>Multicast filtering<br>Data stream control<br>IGMP Snooping<br>SNMP-Traps and SYSLOG |

| | |
|---|---|
| **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** | 6 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** | 57 mm |
| **Height** | 142.8 mm |
| **Depth** | 117.6 mm |
| **Net Weight** | 0.42 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<br>2014/30/EU - electromagnetic compatibility |
| **Standards** | UL 61010-2-201<br>EN/IEC 61131-2<br>EN/IEC 62368-1 |

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| Product Certifications | CE |
|---|---|
| | UL |
| | RCM |
| | DNV |
| | ATEX |

## Packing Units

| Unit Type Of Package 1 | PCE |
|---|---|
| Number Of Units In Package 1 | 1 |
| Package 1 Height | 16.0 cm |
| Package 1 Width | 6.0 cm |
| Package 1 Length | 24.0 cm |
| Package 1 Weight | 420.0 g |

## Contractual warranty

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

# Sustainability

**Green Premium™ label** is Schneider Electric's commitment to delivering products with best-in-class environmental performance. Green Premium promises compliance with the latest regulations, transparency on environmental impacts, as well as circular and low-$CO_2$ products.

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

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Guide to assess a product's sustainability 〉

Transparency     RoHS/REACh

## Well-being performance

✅ Mercury Free

✅ Rohs Exemption Information          Yes

## 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 |

Dimensions Drawings

**Dimensions**

mm
in.

57
2.24

137.5
5.41

14.9
0.59

5.3
0.21

5
0.20

103.5
4.07

9.1
0.36

35.6
1.40

50.4
1.98