# Product data sheet
## Characteristics

# MCSESM053F1CS0
## Modicon Managed Switch - 4 ports for copper + 1 port for fiber optic single-mode

Green Premium™ Product

## 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 | 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 |
| 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 |
| --- | --- |
| | RSTP |
| | Link aggregation |
| | Link backup |
| | Redundant network coupling |
| [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 |
| | 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 |
| | High temperature |
| | Redundancy ring fault |
| | Incorrect configuration |
| | External memory removed |
| Ethernet cabling system | TF switches |
| Width | 57 mm |
| Height | 138 mm |
| Depth | 111 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 |
| | 2014/30/EU - electromagnetic compatibility |
| Standards | UL 61010 |
| | EN/IEC 61131 |
| | EN/IEC 62368-1 |
| Product certifications | CE |
| | UL |
| | RCM |
| | DNV-GL |

## Packing Units

| Unit Type of Package 1 | PCE |
| --- | --- |
| Number of Units in Package 1 | 1 |
| Package 1 Weight | 420 g |
| Package 1 Height | 16 cm |
| Package 1 width | 6 cm |
| Package 1 Length | 24 cm |

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## Offer Sustainability

| | |
|---|---|
| Sustainable offer status | Green Premium product |
| REACh Regulation | REACh Declaration |
| REACh free of SVHC | Yes |
| EU RoHS Directive | Pro-active compliance (Product out of EU RoHS legal scope) EU RoHS Declaration |
| Mercury free | Yes |
| RoHS exemption information | Yes |
| China RoHS Regulation | China RoHS Declaration |
| Environmental Disclosure | Product Environmental Profile |
| Circularity Profile | End Of Life Information |
| WEEE | The product must be disposed on European Union markets following specific waste collection and never end up in rubbish bins |
| 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 |

## Contractual warranty

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

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## Dimensions

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