

Product archive

Short Catalog Sheet METEL ■ EU

200M-0.0.5.FC

- 5x Fast ethernet
- 2 independent power inputs
- Event management with support: HTTP/ONVIF client, E-mail, IP Watchdogs, ETH events, TCP events, Modbus TCP...
- VLAN, QoS, SNMP, SMTP, SNTP, IGMP, RSTP(-M)
- Overvoltage protection up to 150A (8/20µs)
- Operating temperature from -40°C to +70°C



Industrial managed switches LAN-RING equipped with Ethernet ports. Event management, which is part of advanced management, makes these switches the ideal solution for applications with high demands on security and flexibility of the devices used. The switches support redundant MESH topologies with fast connection recovery. Thanks to the highly resilient hardware, the switches can be deployed in a wide operating temperature range of -40 to 70 °C.

Available models

Order name	Order code
200M-0.0.5.FC-BOX	1-780-220

Technical parameters

FAST ETHERNET	
Count	5
Supported formats	10BaseT, 100BaseTx
Surge protection	up to 150 A waveform 8/20 µs
Connector	RJ45
POWER	
Count	2
Connector	WAGO 734-205
Input voltage range	10 - 30 VAC / 10 - 60 VDC
Power consumption	Max. 3 W
Surge protection	600 W waveform 10/1000 µs
ENVIRONMENT	
Operating temperature	-40...+70 °C
Storage temperature	-40...+70 °C
Humidity	Max. 95 %
MECHANICAL	
Weight	0.3 kg
Dimensions - h / w / d	46 x 110 x 118 mm
SECURITY	
Secure Booting	The code is stored and executed directly on SoC, therefore it is not externally accessible.
Firmware Upgrade	The FW image is encrypted and signed using AES-256, RSA-4096, SHA-512
SNMP	SNMPv3 - SHA-512 / AES-256 (recommended) SNMPv2c (obsolete)
GUI Application	Digitally signed installation file using SHA-256, RSA 4096
IEEE 802.1X-2004	RFC3748 - EAP Packet Format, Authenticator PAE, Supplicant PAE
MANAGEMENT	
Application	SIMULand.v4
SNMPv3	Encrypted

Standards and protocols

Standard	Note
IEEE 802.3i	10BASE-T 10 Mbit/s (1.25 MB/s) over twisted pair IEEE 802.3u for 100BaseT(X) and 100BaseFX
IEEE 802.3u	100BASE-TX, 100BASE-T4, 100BASE-FX Fast Ethernet at 100 Mbit/s (12.5 MB/s) with autonegotiation
IEEE 802.3ab	1000BASE-T Gbit/s ethernet over twisted pair at 1 Gbit/s (125 MB/s)
IEEE 802.3z	1000BASE-X Gbit/s ethernet over optical fiber at 1 Gbit/s (125 MB/s)
IEEE 802.3ac	Max. frame size 1522 bytes (allow 802.1Q tag)
IEEE 802.3x	Flow Control
IEEE 802.1p	Class of Service
IEEE 802.1X	Port-based Network Access Control (PNAC)
IEEE 802.1q	VLAN tagging
SNMP v2c/v3	Simple Network Management Protocols
IGMP v1/v2	Internet Group Management Protocols
SNTP	Simple Network Time Protocol
SMTP	Simple Mail Transfer Protocol
RSTP	Rapid Spanning Tree Protocol
LAN-RING.v1, v2	Ring topology with a very short time reconfiguration of max. 30ms
Management	GUI SIMULandv4 - USB C / Encrypted management via LAN

EMC and safety

Standard	Level	Note
EN 61000-6-2		Immunity - industrial environment
IEEE 1613		Environmental and Testing Requirements Electric Power Substations
EN 55035		EMC of multimedia devices - immunity requirements
EN 55032		EMC of multimedia devices - emission requirements

Standard	Level	Note
EN 62368-1		Safety requirements of Information technology equipment
EN IEC 63000		The Assessment Of Electrical And Electronic Products With Respect To The ROHS
EN 61000-4-2	8 kV	Air discharge
EN 61000-4-2	4 kV	Contact discharge
EN 61000-4-3	10 V/m	Radiated HF field
EN 61000-4-4	2 kV	Bursty
EN 61000-4-5	2 kV	Shock pulses
EN 61000-4-6	10 V	Resistance to HF field induced line disturbances
EN 61000-4-8	30 A/m	Magnetic field

Notes

- The manufacturer reserves the right to change technical parameters without prior notice.

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