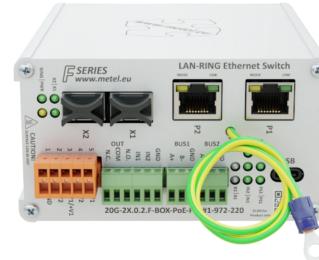


## 20G-2X.0.2.F

- 2x SFP+ slot 10 GBASE-R / 1000 BASE-X
- 2x Fast ethernet port with PoE, max. 95W per port
- Support UPOE, POH, 802.3af/at/bt, max. 95W per port
- The maximum total PoE power consumed through all ports is 150W
- 2x RS485 / Modbus-RTU
- 2x digital/alarm input
- 2 independent power inputs
- Redundant topology LAN-RING, RSTP
- Event management with support for: HTTP/ONVIF client, E-mail, IP Watchdogs, ETH events, TCP, Modbus, DIO, balanced loops...
- VLAN, QoS, SNMP, SMTP, SNTP, IGMP, RSTP(-M), LLDP, 802.1X
- Overvoltage protection up to 1000A (8/20μs)
- Operating temperature from -40 °C to +75 °C



Industrial managed PoE++ LAN-RING switches equipped with Ethernet ports, SFP+ slots, RS485 bus, digital/alarm inputs and relay outputs. With event management included for advanced management, these switches are ideal for applications with high demands on security and flexibility of the equipment used. The switches support redundant MESH/RING topologies with connection recovery up to 30 ms. Thanks to the highly resilient hardware, the switches can be deployed in a wide operating temperature range from -40 to 75 °C with a maximum PoE power of 150 W. All inputs and outputs are equipped with surge protectors, making the switches suitable for deployment in even the most demanding environments.

The devices are developed and manufactured in the EU and are NDAA compliant.

### Available models

Order name	Order code
20G-2X.0.2.F-BOX-PoE-PP	1-972-220

## Technical parameters

<b>SLOT SFP+</b>	
Number of	2
Supported formats	10 GBASE-R / 1000BASE-X
<b>FAST ETHERNET</b>	
Number of	2
Supported formats	10BaseT, 100BaseTx
Surge protection	1000 A waveform 8/20 µs
Connector	RJ45
<b>MANAGEMENT</b>	
Application	SIMULand.v4
SNMPv3	Encrypted
<b>RS485</b>	
Number of	2
Speed	max. 115200 bps
Surge protection	30 A waveform 8/20 µs
<b>DI/BI INPUTS</b>	
Number of	2
Digital mode	NC / NO
Alarm mode	Analog 0 - 30 kΩ for balanced loops
<b>RELAY OUTPUT</b>	
Number of	1
Contact type	Switching
Max. Load	62.5 VA (30 W) / 1 A / 60 V (resistive load)
<b>POWER</b>	
Number of	2
Connector	WAGO 734-205
Without PoE	10 - 30 VAC / 10 - 60 VDC
With PoE up to 15.4 W	48 - 57 VDC
With PoE+ up to 30 W	52 - 57 VDC
With PoE++ up to 95 W	53 - 57 VDC
Energy consumption	Max. 4 W without PoE

**POWER**

Surge protection	1500 W waveform 10/1000 µs
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**PoE**

Total PoE power consumption	150 W
Standard	IEEE 802.3af/at/bt, UPOE, POH
Number of PoE ports	2
Maximum power / port	95 W

**ENVIRONMENT**

Operating temperature	-40...+75 °C
Storage temperature	-40...+75 °C
Humidity	Max. 100% (non-condensing)

**MECHANICS**

Weight	0.65 kg
Dimensions - h / w / d	60 x 110 x 140 mm
IP protection	IP 30
Cooling	Active - temperature controlled

**SWITCH**

Number of MAC addresses	16 K
Maximum frame size	10 K (Jumbo)
Packet buffer	2 Mbit
Switching	Store-and-forward, full wire-speed, non-blocking on all ports
Switching capacity	40.4 Gbps

## Standards and protocols

Standard	Note
IEEE 802.1q	VLAN tagging
UPOE	Universal Power Over Ethernet (PoE up to 60W)
IEEE 802.3u	100BASE-TX, 100BASE-T4, 100BASE-FX Fast Ethernet at 100 Mbit/s (12.5 MB/s) with autonegotiation
LAN-RING.v1, v2	Ring topology with a very short time reconfiguration of max. 30ms
SNMP v2c/v3	Simple Network Management Protocols
IEEE 802.3x	Flow Control
IEEE 802.3z	1000BASE-X Gbit/s ethernet over optical fiber at 1 Gbit/s (125 MB/s)
SNTP	Simple Network Time Protocol
IEEE 802.1X	Port-based Network Access Control (PNAC)
IEEE 802.3af/at/bt	Power over Ethernet up to 15.4 / 30 / 90W
IEEE 802.3i	10BASE-T 10 Mbit/s (1.25 MB/s) over twisted pair IEEE 802.3u for 100BaseT(X) and 100BaseFX
RSTP	Rapid Spanning Tree Protocol
Modbus TCP/RTU	Master / Slave
POH	Power Over HDBaseT (PoE up to 90W)
IEEE 802.3ab	1000BASE-T Gbit/s ethernet over twisted pair at 1 Gbit/s (125 MB/s)
Management	GUI SIMULandv4 - USB C / Encrypted management via LAN
IGMP v1/v2	Internet Group Management Protocols
IEEE 802.1p	Class of Service
IEEE 802.3ac	Max. frame size 1522 bytes (allow 802.1Q tag)
SMTP	Simple Mail Transfer Protocol

## EMC and safety

Standard	Level	Note
EN 55032		EMC of multimedia devices - emission requirements
EN 55035		EMC of multimedia devices - immunity 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 61000-4-8	30 A/m	Magnetic field
EN 61000-6-4		Emissions - industrial environment
EN 50121-4 ed.4		Railway applications - EMC Emission and immunity of signalling and communication equipment

## Notes

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

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## Dimensions

