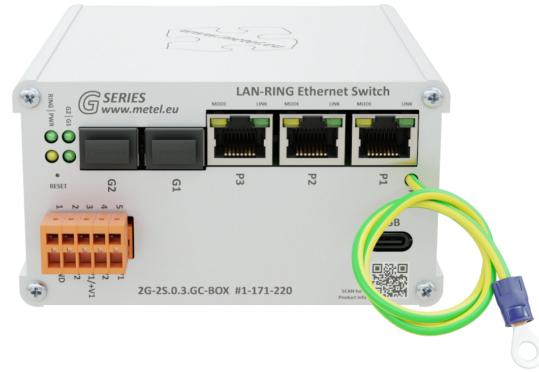


# Network infrastructure

**Short Catalog Sheet**  
**METEL EU**

## 2G-2S.0.3.GC

- 2x SFP slot with 100/1000BASE-X support
- 3x Fast ethernet port
- Configuration via SSH CLI and GUI SIMULand
- Secure Boot
- Redundant topology LAN-RING, RSTP, MSTP
- 2 independent power inputs
- VLAN, QoS, SNMP, SMTP, SNTP, IGMPv1/2, RSTP, LLDP, 802.1X, LACP, MSTP, Tacacs+, Syslog
- 64 events with HTTP/ONVIF client, e-mail, IP Watchdogs, ETH events, TCP, Modbus, etc.
- Overvoltage protection up to 150A (8/20μs)
- Operating temperature from -40 °C to +75 °C



Industrial managed switches with SSH CLI and SIMULand GUI configuration are equipped with SFP, Fast Ethernet slots. In addition to supporting common network standards, they also include event management with 64 automated events, making these switches ideal for complex applications with high demands on security and flexibility of the devices used. The switches support redundant MESH/RING topologies with link recovery under 30 ms and redundant power supplies. The highly durable hardware allows the switches to be deployed in harsh environments over a wide range of operating temperatures.

Some of these features will be released during 2025!

A current list of available features is available upon request at [info@metel.eu](mailto:info@metel.eu).

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

### Available models

Order name	Order code
2G-2S.0.3.GC-BOX	1-171-220

## Technical parameters

<b>SFP SLOT</b>	
Number of	2
Supported formats	100/1000 BASE-LX, BASE-BX
<b>FAST ETHERNET</b>	
Number of	3
Supported formats	10BaseT, 100BaseTx
Surge protection	up to 150 A waveform 8/20 µs
Connector	RJ45
<b>POWER</b>	
Number of	2
Connector	WAGO 734-205
Input voltage range	10 - 30 VAC / 10 - 60 VDC
Energy consumption	Max. 4 W
Surge protection	1500 W waveform 10/1000 µs
<b>ENVIRONMENT</b>	
Operating temperature	-40...+75 °C
Storage temperature	-40...+75 °C
Humidity	Max. 100% (non-condensing)
<b>MECHANICS</b>	
Weight	0,65 kg
Dimensions - h / w / d	60 x 110 x 140 mm
IP protection	IP 30
Cooling	Passive
<b>SECURITY</b>	
Firmware Booting	The code is encrypted and signed Secure Boot decrypt and verify the signature
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

**SECURITY**

IEEE 802.1X-2004	RFC3748 - EAP Packet Format, Authenticator PAE, Supplicant PAE
SSH	SSH v2, OpenSSH, OpenSSL
Tacacs+	Authentication, Authorisation, Accounting

**MANAGEMENT**

Application	SIMULand.v4
SNMPv3	Encrypted
SSH	CLI

**SWITCH**

Number of MAC addresses	8 K
Maximum frame size	10240 B (Jumbo)
Packet buffer	1 Mbit
Switching	Store-and-forward, full wire-speed, non-blocking on all ports
Switching capacity	4.6 Gbps

## 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
SSH	Command Line Interface
LACP	IEEE 802.3ad, Link Aggregation Control Protocol
MSTP	Multiple Spanning Tree Protocol
Tacacs+	Terminal Access Controller Access-Control System for Authentication, Authorization, and Accounting (AAA) in network security
Syslog	Standard for message logging

## EMC and safety

Standard	Level	Note
EN 55032		EMC of multimedia devices - emission requirements
EN 55035		EMC of multimedia devices - immunity requirements
EN 50121-4 ed.4		Railway applications - EMC Emission and immunity of signalling and communication equipment
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	1 kV	Shock impulses
EN 61000-6-4		Emissions - industrial environment

## Notes

- The manufacturer reserves the right to change technical parameters without prior notice.
- Some of these features will be released during 2025!
- A current list of available features is available upon request at [info@metel.eu](mailto:info@metel.eu).
- Hardware, software and firmware developed and manufactured in accordance with ISO 27001 in the Czech Republic.

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## Dimensions

