

2G-2C.0.8.G

- 2x COMBO port (SFP/RJ45)
- 8x Fast ethernet port with PoE, max. 95 W per port
- Support UPOE, POH, 802.3af/at/bt, max. 95W per port
- 2x RS485 / Modbus-RTU
- 2x digital/alarm input & 1x programmable relay
- 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, Email, IP Watchdogs, ETH events, TCP, Modbus, inputs / outputs etc
- Overvoltage protection up to 1000A (8/20μs)
- Operating temperature from -40 °C to +75 °C



Industrial managed switches with SSH CLI and SIMULand GUI configuration are equipped with COMBO ports, Fast Ethernet with PoE++, RS485 bus, digital/alarm inputs and programmable relay. In addition to supporting common network standards, they also include event management with 64 automatic 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 sub-30ms link recovery 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.

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

Available models

Order name	Order code
2G-2C.0.8.G-BOX-PoE-PP	1-185-220

Technical parameters

COMBO PORT	
Number of	2
SFP slot	100/1000 BASE-LX, BASE-BX
RJ45	10/100/1000 BASE-T
FAST ETHERNET	
Connector	RJ45
Number of	8
Supported formats	10BaseT, 100BaseTx
Surge protection	1000 A waveform 8/20 µs
RS485	
Number of	2
Speed	max. 115200 bps
Surge protection	30 A waveform 8/20 µs
DI/BI INPUTS	
Number of	2
Digital mode	NC / NO
Alarm mode	Analog 0 - 30 kΩ for balanced loops
RELÉ OUTPUT	
Number of	2
Contact type	Switching
Max. Load	62.5 VA (30 W) / 1 A / 60 V (resistive load)
POWER	
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. 8 W without PoE
Surge protection	1500 W waveform 10/1000 µs
Number of	2
PoE	

Standard	IEEE 802.3af/at/bt, UPOE, POH
Number of PoE ports	8
Maximum power / port	95 W
Maximum total PoE power consumption	270 W
ENVIRONMENT	
Operating temperature	-40...+75 °C
Storage temperature	-40...+75 °C
Humidity	Max. 100% (non-condensing)
MECHANICS	
Weight	1,1 kg
Dimensions - h / w / d	60 x 255 x 113 mm
IP protection	IP 30
Cooling	Passive
SECURITY	
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
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	
Packet buffer	1 Mbit
Switching	Store-and-forward, full wire-speed, non-blocking on all ports

SWITCH

Switching capacity 5.6 Gbps

Number of MAC addresses 8K

Maximum frame size 1632 B

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 802.3af/at/bt	Power over Ethernet up to 15.4 / 30 / 90W
POH	Power Over HDBaseT (PoE up to 90W)
UPOE	Universal Power Over Ethernet (PoE up to 60W))
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
Modbus TCP/RTU	Master / Slave
SNMP v2c/v3	Simple Network Management Protocols
IGMP v1/v2	Internet Group Management Protocols
SMTP	Simple Mail Transfer Protocol
SNTP	Simple Network Time 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
Tacacs+	Terminal Access Controller Access-Control System for Authentication, Authorization, and Accounting (AAA) in network security
MSTP	Multiple Spanning Tree Protocol

Standard	Note
Syslog	Standard for message logging
LACP	IEEE 802.3ad, Link Aggregation Control Protocol

EMC and safety

Standard	Level	Note
EN 55032		EMC of multimedia devices - emission requirements
EN 55035		EMC of multimedia devices - immunity requirements
EN 61643-21		Surge protectors in telecommunication and signalling networks
EN 60950-1		Security requirements for 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	6 kV	Contact discharge
EN 61000-4-3	20 V/m	Radiated RF 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
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.
- Some of these features will be released during 2025!
- A current list of available features is available upon request at info@metel.eu.
- Hardware, software and firmware developed and manufactured in accordance with ISO 27001 in the Czech Republic.

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Dimensions

