Network infrastructure

Short Catalog Sheet

METEL EU

2G-1C.0.8.GC

- 1x 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
- Configuration via SSH CLI and GUI SIMULand
- Secure Boot
- Redundant topologies 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 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 port, Fast Ethernet with PoE++. 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 topologies and redundant power supplies. Highly rugged 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-1C.0.8.GC-BOX-PoE-PP	1-186-220

Technical parameters

COMBO PORT	
Number of	1
SFP slot	100/1000 BASE-LX, BASE-BX
RJ45	10/100/1000 BASE-T
FAST ETHERNET	
Number of	8
Supported formats	10BaseT, 100BaseTx
Surge protection	1000 A waveform 8/20 µs
Connector	RJ45
POWER	
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. 8 W without PoE
Surge protection	1500 W waveform 10/1000 µs
PoE	
Number of PoE ports	8
Maximum power / port	95 W
Total PoE power consumption	270 W
Standard	IEEE 802.3af/at/bt, UPOE, POH
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

MECHANICS	
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	
Number of MAC addresses	8 K
Maximum frame size	1632 B
Packet buffer	1 Mbit
Switching	Store-and-forward, full wire-speed, non-blocking on all ports
Switching capacity	3.6 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
Modbus TCP/RTU	Master / Slave
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 62368-1		Safety requirements of Information technology equipment
EN IEC 63000		The Assessment Of Electrical And Electronic Products With Respect To The ROHS
EN 61643-21		Surge protectors in telecommunication and signalling networks
EN 50121-4 ed.4		Railway applications - EMC Emission and immunity of signalling and communication equipment
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

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.

Document created on 02/10/2026 02:29AM:59

Dimensions