ComAp
The heart of smart control

InteliGateway 101

Order code: CM2GW101BAB

Communication module

Datasheet

Product description

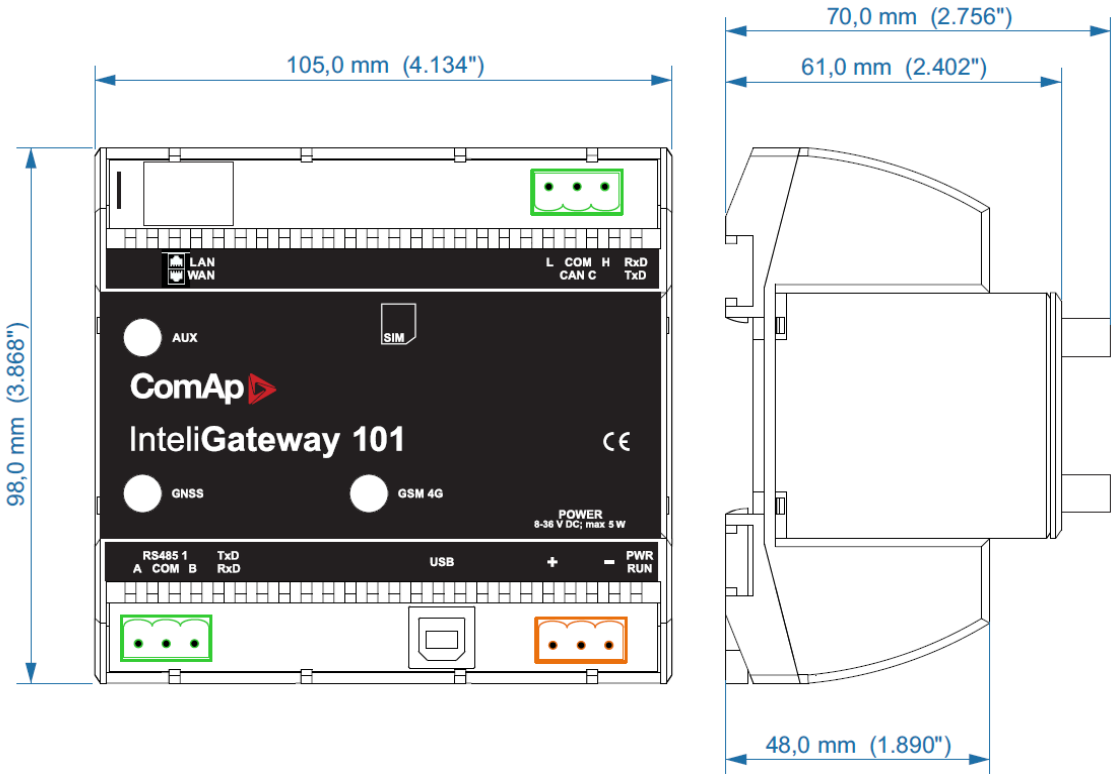
- Communication gateway with configurable interfaces between Modbus TCP/RTU, WebSupervisor and InteliScada protocols allowing user-defined interconnection of all attached devices
- Equipped with geolocation capability for asset tracking and 4G modem for extended connectivity
- 4G broadband cellular connectivity for when wired network connectivity is not present

Note: *If you need to connect the gateway to ComAp controllers over CAN, please use the InteliGateway300 or InteliGateway301.*

Key features

- Bidirectional connectivity of 3rd party Modbus devices to WebSupervisor or InteliScada
- Data buffering capability for avoiding loss of data during connectivity outage
- Inbuilt support of energy industry Modbus controlled devices (Inverters, BESS) from leading manufacturers
- Support for customizable user templates for any additional Modbus devices that are not inbuilt
- Dual ethernet interfaces decoupling trusted (private) and untrusted (public) network segments for enhanced cybersecurity
- Geolocation capability through pre-built satellite-based radionavigation (GPS, BeiDou, Galileo, GLONASS) allowing for geolocation of asset

Dimensions, terminals and mounting



Unit: mm (inch)

Weight: 190 g

Note: *The unit is mounted on DIN rail (35 mm/1.38 in)*

Technical data

Power supply

Power supply	8 to 36 V DC
Power consumption	up to 5 W

Operating conditions

Operating temperature	- 20°C to + 70°C
Storage temperature	- 40°C to + 80°C
Operation humidity (norm 60068-2-30)	5 to 95% w/o condensation
Vibration	5 - 25 Hz, ± 1.6 mm 25 - 100 Hz, a = 4 g
Shocks	a = 200 m/s^2

Communication

3x CAN port:	Galvanically separated, built-in terminating resistors are activated by jumper, Nominal impedance 120 Ω
2x RS485 port:	Galvanically separated, built-in balancing and terminating resistors are activated by jumper
2x Ethernet port	RJ45, 100Mbit/s
1x USB device	Non-isolated type B connector (Not supported yet)

GNSS

Antenna interface	SMA female, 2.8V / 20 mA
Antenna type	Active
Support	GPS, BeiDou, Galileo, GLONASS

Cellular

Supported networks and frequency bands	2G (GPRS/EDGE): 850,900,1800,1900MHz 3G (UMTS/HSPA): Bd1 (2100MHz), Bd2 (1900MHz), Bd3 (1800MHz), Bd4 (2100MHz), Bd5 (850MHz), Bd6 (850MHz), Bd8 (900MHz), Bd19 (850MHz) 4G (LTE-FDD): Bd1 (2100MHz), Bd2 (1900MHz), Bd3 (1800MHz), Bd4 (2100MHz), Bd5 (850MHz), Bd7 (2600MHz), Bd8 (900MHz), Bd12 (700MHz), Bd13 (700MHz), Bd18 (850MHz), Bd19 (850MHz), Bd20 (800MHz), Bd26 (850MHz), Bd28 (700MHz), Bd66 (2100MHz) 4G (LTE-TDD): Bd38 (2600MHz), Bd40 (2300MHz), Bd41 (2500MHz)
Antenna interface	2x SMA female (Main and Diversity)

Available antennas

Combined antenna 4G/LTE and GPS	Antenna for 2G, 3G and 4G/LTE networks as well as for GPS	OT1A4GGPSCX
Combined antenna 4G/LTE and GNSS	2 × 4G LTE/3G/2G MIMO, GPS/GLONASS/Galileo SM Antenna	OT2A4GGPSCX

Certificates and standards

- EN61000-6-2
- EN61000-6-4
- UL6200
- FCC ID: QIPPLS63-W

PLS63-W

R 217-210086
T AD210086217

Product contains FCC ID: QIPPLS63-W

Note: *Giteki certification valid with OT2A4GGPSCX*

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