

InternetBridge-NT InternetBridge-NT 4G



Order code: see Order codes on page 2

Communication Module with Cellular/Ethernet Connection

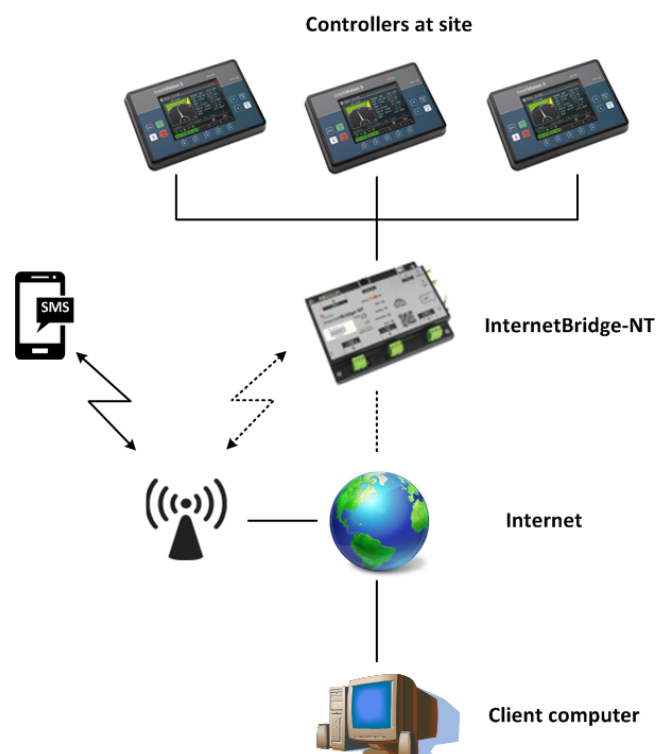
Product description

- ▶ Communication module that allows connection of a single controller as well as whole site to the Internet or Local area network.
- ▶ Connection to the Internet can be achieved via built-in cellular modem supporting 2G, 3G and 4G (LTE) networks or Ethernet cable.
- ▶ The built-in GPS receiver also enables location and tracking of the device via WebSupervisor.

Key features

- ▶ Wired Internet connection via ethernet port
- ▶ Wireless Internet connection via integrated 2G/3G/4G(LTE) cellular modem
- ▶ Version with 3G modem allows global usage
- ▶ Version with 4G modem is available in two modifications with different frequency bands supported.
- ▶ Tracking and time synchronization via integrated GPS receiver
- ▶ Active e-mails and SMS
- ▶ ComAp Direct IP or AirGate connection
- ▶ Web SCADA interface
- ▶ MODBUS/TCP, SNMP
- ▶ Metal housing with DIN-rail mount

Application overview



Order codes

| | | |
|----------------------|---|-------------|
| InternetBridge-NT | 3G version for global market | IB-NT |
| InternetBridge-NT 4G | 4G (LTE) version, primarily for US market | CM2IB4GABFB |
| InternetBridge-NT 4G | 4G (LTE) version for other markets | CM2IB4GEBFB |

Note: To select proper order code please check the cellular modem **specification table** below against **network types and frequency bands provided by the operator with which the device is to be used.**

Technical data

General

| | |
|------------------------|-----------------------------|
| Width x Height x Depth | 180x130x45mm |
| Weight | 450g |
| Power supply range | 8-36VDC negative grounded |
| Power consumption | 400mA@8V; 120mA@36V |
| Peak power consumption | cca 1,5A@8V; 0,5A@36V |
| Operating temperature | -20 to +60°C (-4 to 140°F) |
| Storage temperature | -40 to +80°C (-40 to 176°F) |

Controller interfaces

| | |
|--------|--|
| RS-232 | D-SUB9 |
| RS-485 | Galvanically separated, built-in balancing and terminating resistors activated by jumper |
| CAN | Galvanically separated, built-in terminating resistor activated by jumper |

GPS

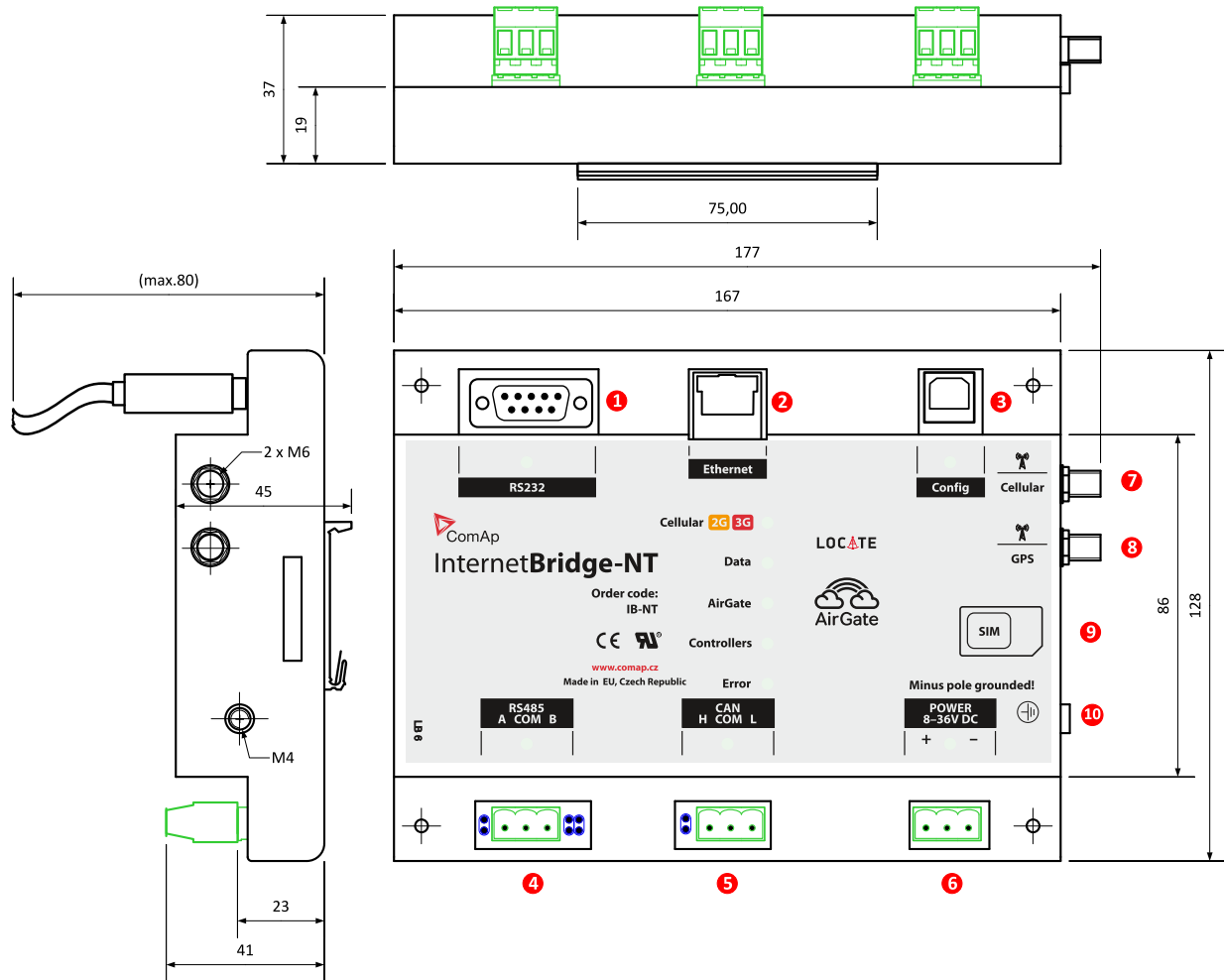
| | |
|-------------------|---------------------|
| Antenna interface | SMA female, 5V/50mA |
| Antenna type | Active |

Network interfaces

| | | |
|----------------|--|-----------------|
| Cellular modem | Supported networks: InternetBridge-NT | 2G,3G |
| | Supported networks: InternetBridge-NT 4G | 2G,3G,4G (LTE) |
| | Antenna interface | SMA female |
| Ethernet | | RJ45, 100Mbit/s |

Cellular Modem

| Device type | Order code | 2G Bands [MHz] | 3G Bands [MHz] | 4G Bands [MHz] |
|----------------------|-------------|----------------------|--|--|
| InternetBridge-NT | IB-NT | 850, 900, 1800, 1900 | 800, 850, AWS(1700/2100), 1900, 2100 (Bands 6,5,4,2,1) | — |
| InternetBridge-NT 4G | CM2IB4GEBFB | 900, 1800 | 900, 1800, 2100 (Bands 8,3,1) | 800, 900, 1800, 2100, 2600 (Bands 20,8,3,7,1) |
| InternetBridge-NT 4G | CM2IB4GABFB | 850, 900, 1800, 1900 | 850, AWS(1700/2100), 1900 (Bands 5,4,2) | 700, 700, 850, AWS (1700/2100), 1900 (Bands 13,17,5,4,2) |



- ① RS-232 port for single controller connection
- ② Ethernet port for wired LAN/Internet connection
- ③ USB port for device configuration
- ④ RS485 port for multiple controllers connection
- ⑤ CAN interface for multiple controllers connection
- ⑥ Power supply connector
- ⑦ Cellular antenna connector
- ⑧ GPS antenna connector
- ⑨ SIM card holder
- ⑩ Grounding screw

Note: USB port is used only for device configuration. It does not allow controller monitoring.

IMPORTANT: In hardware version 1.0 the device body is internally connected to the negative pole of the power supply.

Related products

| Product | Description | Order code |
|---------------------------|--|------------------------------------|
| InteliGen ^{NT} | Sophisticated high-end range gen-set controller for single and multiple gen-sets operating in standby or parallel modes | InteliGen NT |
| InteliSys ^{NT} | Premium gen-set controller designed for complex generator (standby and parallel) and cogeneration (CHP) applications involving single and multiple gen-sets | InteliSys NT |
| InteliLite | Product family designed for use in standby and prime power applications, which typically feature a single generator. | InteliLite |
| InteliCompact | Controllers designed for simple single and multiple set applications, which require automatic mains failure along, paralleling and load sharing functions. | InteliCompact |
| MainsCompact | Mains supervision unit designed to manage up to 31 InteliCompact NT MINT controllers operating in parallel to mains operation or multiple Automatic Mains Failure (AMF) mode. | MainsCompact |
| InteliMains ^{NT} | Mains supervision unit, which connects InteliGen NT and InteliSys NT controllers to the mains and serves as a bus-tie synchronizing controller between two groups of gen-sets. | InteliMains NT |
| Engine controllers | Family of engine controllers offers innovative and universal system integration for a wide range of engine driven platforms and applications. | Engine controllers |

Note: You can find all related manuals and materials for InternetBridge-NT (4G) at <http://www.comap.cz/products/detail/InternetBridge-NT/>

Certificates and standards

| | |
|---|---|
| <ul style="list-style-type: none"> ▶ IEC 60068-2-6 ▶ IEC 61000-4-2 ▶ IEC 61000-4-4 ▶ IEC 61000-4-5 ▶ IEC 61000-4-6 ▶ IEC 60068-2-27 |   |
| List of standards is available on: https://webstore.iec.ch/ | |

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