

InternetBridge-NT
InternetBridge-NT 4G



Order code: see Order codes on page 2

Communication Module with Cellular/Ethernet Connection

Datasheet

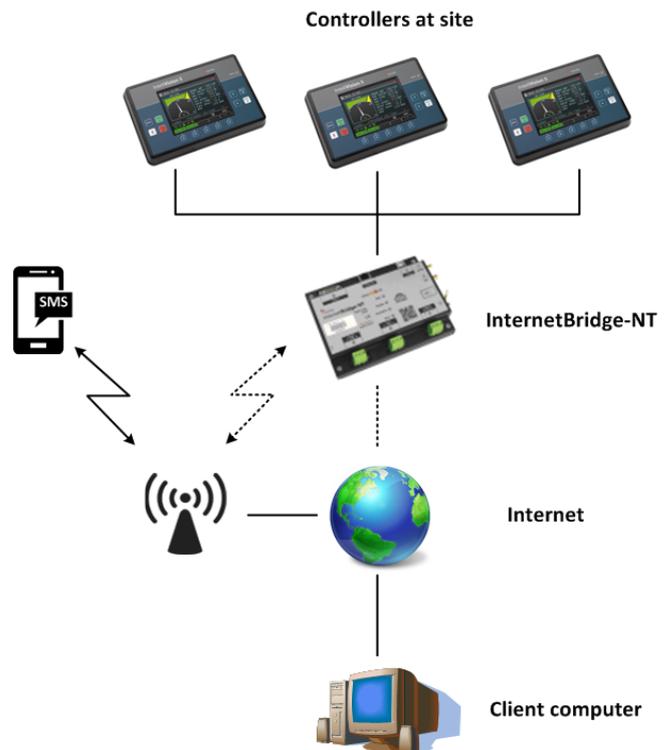
Product description

- ▶ 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
Power dissipation	5 W
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)
Heat radiation	6 W

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

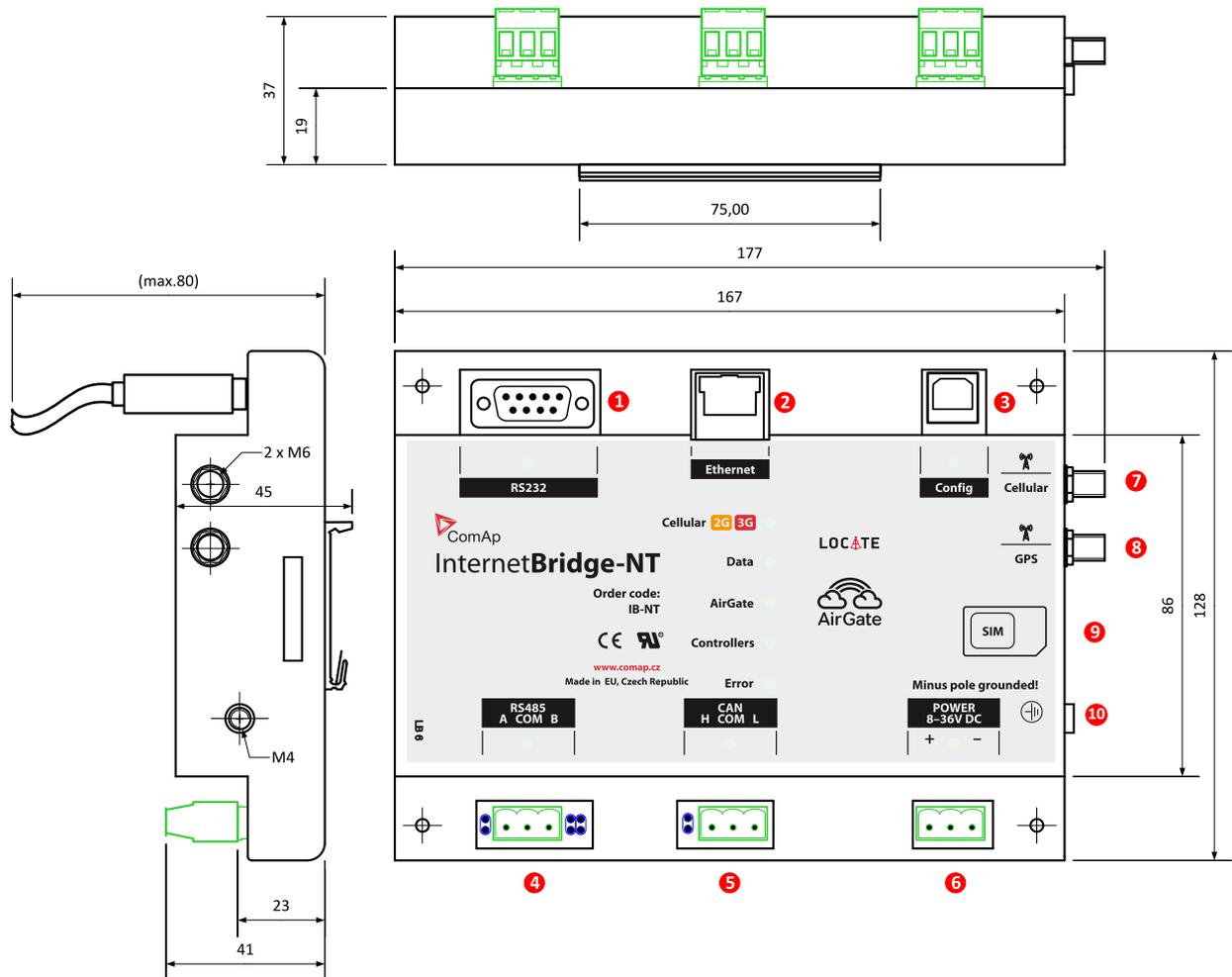
Network interfaces

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)

Dimensions, terminals and mounting



- ① RS-232 port for single controller connection
- ② Ethernet port for wired LAN/Internet connection
- ③ USB port for device configuration

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

- 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

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