

TECHNICAL DATASHEET

BRIDGE 4G

MODEL NUMBER: **Nevelus BlasT Panel 101**

GENERAL

Bridge is a multi-frequency radio transceiver that connects Detectors with Command Center. Bridge combines three modules: short-range radio, long-range radio and battery.

Operating temperature range	-40°C to +60°C
IP rating	X7 (waterproof)
Weight (including battery)	1400 g
Dimensions	95x75x295mm

SHORT RANGE RADIO

Short-range radio is used for two-way communication between the Bridge and the Detectors. Bridge has a 2,4 GHz radio module for communication with Detectors.

Short-range 2.4GHz radio is used for two-way communication between the Detector and other Nevelus BlasT devices.

Standard	IEEE 802.11.4
Bandwidth	2 Mhz
Data rate	250 kbps
Modulation	QPSK
Antenna	Omnidirectional (external)
EIRP	12 dBm
Security	ECC (secp160r1)
Authentication & encryption	AES 128
Max LOS distance Network topology	500 m mesh



LONG RANGE RADIO

Long-range radio is used for two-way communication between the Bridge and the Command Center server. Bridge uses 4G module for communication with the server.

Module type	LE910C4-EU
Region	EMEA
4G bands	B1, B3, B7, B8, B20, B28A B1,
3G bands	B3, B8
2G bands	B3, B8
Antenna	Omnidirectional (internal)

BATTERY

Bridge is powered by 4 rechargeable Li-Ion battery.

Voltage	3.7V
Capacity	10,2 Ah (for Bridge x 4)
Lifetime	Up to 140 days standby
Time to recharge	12 hours (depending on charge type)
Auxiliary solar panel	optional
