GTT GLB MSMART-BOX® DC ENC KIT - TELTONIKA RUTX50 + 5G & GPS

The **GTT GLB mSmart-Box® Outdoor Router Enclosure Kit + 5G & GPS** is the outdoor IP67 electronic enclosure kit specifically designed for the **Teltonika RUTX50 Router**. 4G/LTE, 5G + GPS antenna with complete IP67/NEMA6 protection against water, dust, and extreme temperatures, making it ideal for harsh environments.
Key Features:

Material and Durability:

- The enclosure is manufactured from die-cast aluminium, ensuring durability.
- Die-cast aluminium metal lid for security and ease of access.

Installation and Connectivity:

- Custom designed internal 'quick fix'mounting plate for the RutX50 router
- Preinstalled internal cables are connected to your wireless device, making it ready for installation
- 100% leak free tested for guaranteed outdoor environmental protection
- External pole/wall stainless steel mounting bracket

Industry Adoption:

- The mSmart-Box® is widely adopted in industries such as mining, construction, marine, and smart cities.
- It is a preferred solution for Design Engineers and Project and Purchase Managers due to its simplicity and UK availability.

Technical Specifications:

- **Outdoor IP67 enclosure** with **4xM25 and 6xRF ports.**
- **1 GPS/GLONASS Antenna**. -**Datasheet**
- **4 Wide-Band Antennas** for **4G/LTE/5G** networks -**Datasheet**

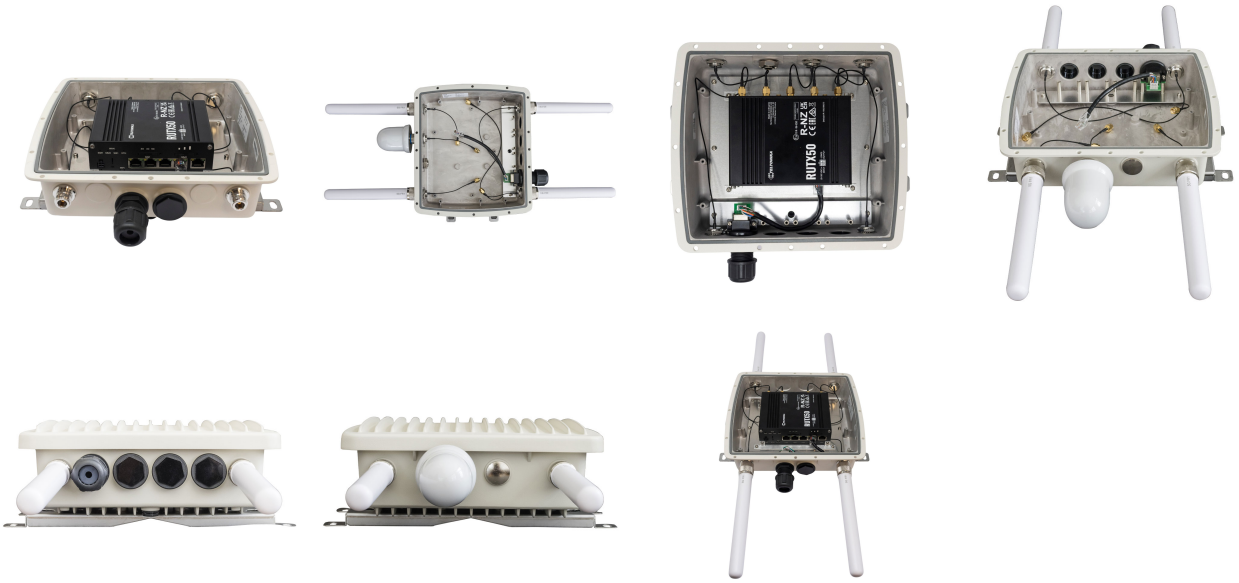
- **Gore® Vent** for essential atmospheric temperature control
- Equipped with an **M25 RJ45 PoE Module**, internal cables, and components.

Advantages for Project Engineers:

- Specifically designed for **Teltonika RUTX50 routers**
- Immediate stocked availability in the UK.
- Ready for immediate deployment – simply connect your chosen external power / POE cable
- No minimum volume orders required.
- Volume order price breaks available - please contact **sales@gttwireless.com**
- Can be delivered within 48 hours.

The **GTT Wireless mSmart-Box®** GLB IP67/NEMA6 electronic enclosure provides the perfect fit, robust protection, and seamless connectivity for **Teltonika RUTX50 routers** in challenging outdoor environments.

PRODUCT GALLERY

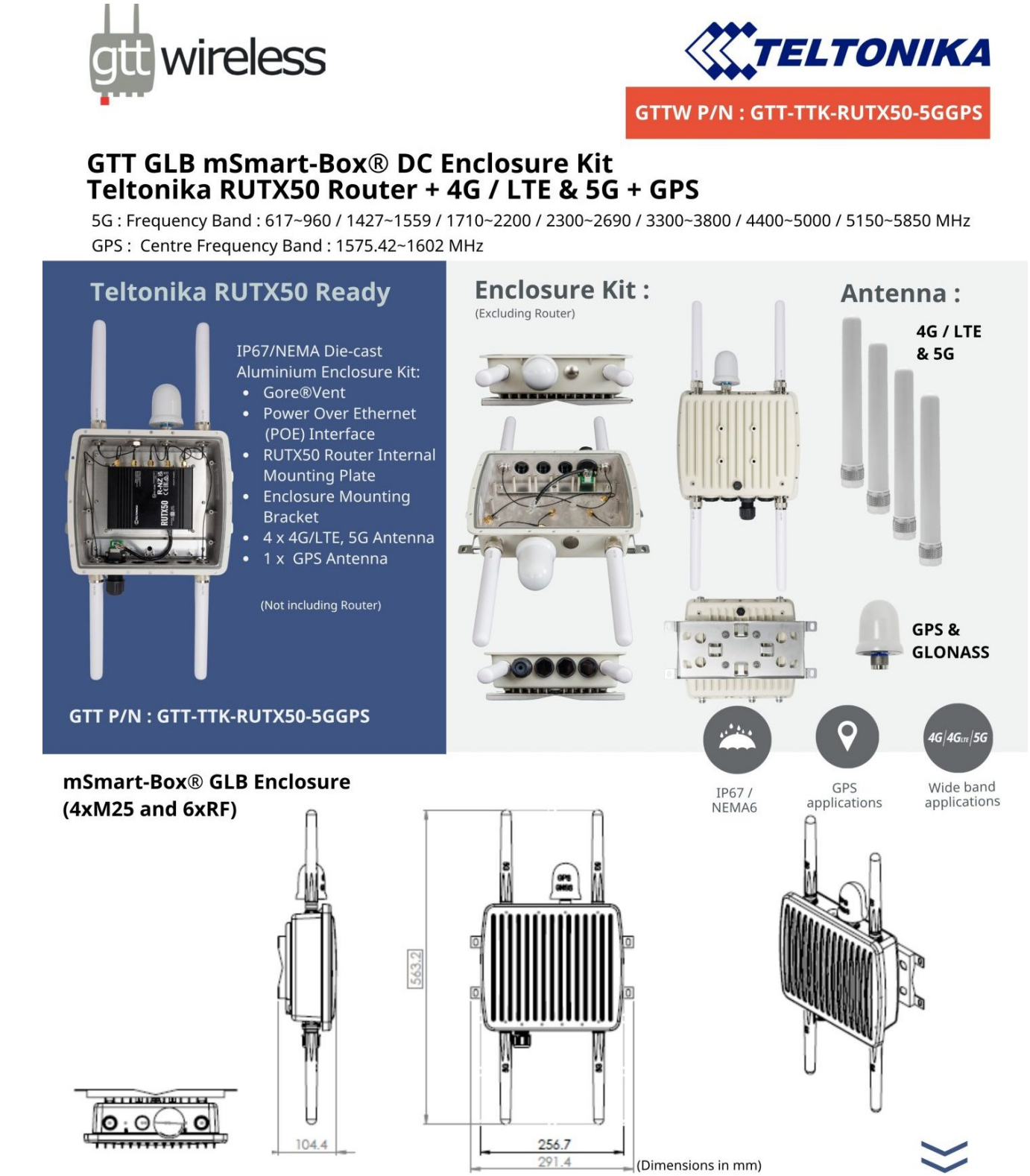


TECHNICAL DATA

Antenna Band	Multi-Band
Antenna Bandwidth - 4G & LTE	1427~1559, 1710~2200, 2300~2690MHz, 617~960
Antenna Bandwidth - 5G & 5G Redcap	3300~3800, 4400~5000, 5150~5850MHz
Antenna Bandwidth - GPS	1575.42 - 1602 MHz
Antenna Dimensions	5G: 180mm L x 25mm OD, GPS: 55mm L x 64mm OD
Antenna Efficiency - 4G/LTE	41% min. 33% min. 65% min. 59% min. 69% min. 59% min. 51% min
Antenna Interface	N-TYPE

Antenna Peak Gain	28.1±3 dBic, 5G: 1.7 dBi max. 1.2 dBi max. 2.5 dBi max. 3.2 dBi max. 4.1 dBi max. 4.8 dBi max. 4.4 dBi max, GPS: 28.2±3 dBic.
Enclosure External Dimensions	mSmart-Box GLB - 250.0 mm x 220.0 mm x 70.0 mm
Enclosure External Mount Bracket	Fixed, Pole Mount
Enclosure Format	GLB
Enclosure RF Ports	6
Enclosure Internal Dimensions	mSmart-Box - GLB - 140 mm x 185 mm x 55 mm
Enclosure Internal Mount Bracket	Included
Enclosure Lid Type - Standard	mSmart-Box - GLB - Shallow - Ribbed Front - DC Aluminium
Enclosure I/O M25 Ports	4
Enclosure Pressure & Humidity Equaliser	Yes - Gore Vent
Product Brand	Teltonika
Product Cable Length	2 x 300mm, 3 x 100mm
Product Colour	White
Product Environmental Certificates	RoHS Compliant
Product Frequency Range	5G: 600MHz - 6GHz, GPS: 1575 - 1602MHz
Product Humidity Range	95% @ 55°C
Product Impedence	50 Ohms
Product Ingress	IP67, NEMA6 Rated
Product Material	DCA - Die-Cast Aluminium
Product Temperature Range	-40°C to +85°C
Product Vswr	3.0 max.:1, 5G: 4.0 max.:1, GPS: 2.0 dB typ.
Product Screw Size	10mm
Product Screw Type	M4
Product Connector Type	5 x SMA
Enclosure Lid Type Op	mSmart-Box - GLB - Deep - Flat Front - Polycarbonate
Enclosure Optional I/O	M25 Port with RJ45 (Cat5e)
Product Range Model	Teltonika RUTX50 router (not included)
Product Category	Enclosure

TECHNICAL DIAGRAMS



GLB IP67 Electronics Enclosure Kit - Teltonika RUTX50 - 5G+GPS

Bill of Materials :

GTT P/N : GTT-TTK-RUTX50-5GGPS

Item	Qty	GTTW Part No	Description
Enclosure	1	GTT-ACC-P016-A3600-M	mSmart-Box® GLB Enclosure (4xM25 and 6xRF)
	1	AL-COVER-GLB-M	mSmart-Box® GLB Metal Lid
	1	R-14-0016-B	mSmart® Gore® Vent - Plastic
M25 Module	1	GTT-ACC-P019-4M25-M2	mSmart® GLB M25x4 Mounting Bracket
	1	GTT-POERJ45PCB-AGM	mSmart® RJ45 (Cat5e) PoE Module
	1	R-14-0051-V0F1-O-M	mSmart® Cable Gland - Black - Cable Diameter Ø4.5~Ø6.5mm
	1	K61963080005A-03-150	mSmart® Cable Assembly 2x4 pin housing to RJ45 (Cat5e) - 150 mm length
	3	R-14-0132-V0F1-M	mSmart® M25 Cover - Black
4G/LTE, 5G Antenna	4	OA-L71-13-03-CN-5G	Wide-Band Antenna, 4G/LTE/5G Cellular Networks, Outdoor IP67/NEMA6, N' Type Interface, N type Interface, 600MHz - 6GHz
GPS Antenna	1	OE-GPSGLO-016-CN	GPS/GLONASS Antenna, Outdoor IP67/NEMA6, IK09 Robust, N' Type Interface, 1575-1602MHz
N Type Cables	3	1264G23111050	mSmart® Cable Assembly IP67 Rear Lock N Type Jack to SMA - 100mm length
	2	1264G23111080	mSmart® Cable Assembly IP67 Rear Lock N Type Jack to SMA - 300mm length
	1	GTT-ACC-P017-M	mSmart® RF Dummy Cover
Custom Internal Mounting Bracket	1	GTT-RUTX50-MP-BT-KIT	Custom Internal GLB Mounting Plate and Brackets for RUTX50 Wifi Router
External Mounting Bracket	1	GLBAC-WALLMOU-SUS-M	External mSmart® Pole and Wall Mounting Bracket

5G Outdoor Antenna

617~960 / 1427~1559 / 1710~2200 / 2300~2690 / 3300~3800 / 4400~5000 / 5150~5850 MHz

IP67

Wide band applications

Environmental & Mechanical Characteristics

IP Rating : IP67 - water-resistant to 1m for 30 mins. Resistant to dust.
IK Rating : IK09
Dimensions: 25mm (W) x 180mm (L)
Weight: 105g
Temperature: -40°C to +70°C
Humidity: 95% @55°C
Antenna Housing Material: ASA UV Resistance
Antenna Housing Colour: White

Support Frequency Bands	LTE BAND		1,2,3,4,5,7,8,11,12,13,14,17,18,19,20,26,28,71,25,39,30
		DL	27 29 32 34 38 40 41 42 43 46
	FR1		n1,n2,n3,n5,n7,n14,n28,n30,n41,n66,n71,n78,n79
	CBRS		48

RF Specification

Frequency Range	617 ~ 960	1427 ~ 1559	1710 ~ 2200	2300 ~ 2690	3300 ~ 3800	4400 ~ 5000	5150 ~ 5850
Polarization	Linear, Vertical						
HPBW / Horizontal	360°						
HPBW / Vertical	60°						
Peak Gain	0.7 dBi max	1.2 dBi max	2.3 dBi max	3.2 dBi max	5.2 dBi max	5.2 dBi max	6.2 dBi max
Efficiency	50% min	48% min	61% min	61% min	72% min	71%min	73% min
VSWR	4.0 max : 1	4.0 max : 1	3.0 max : 1	3.0 max : 1	3.0 max :1	3.0 max :1	3.0 max : 1
Power Handling	2W(cw)						
Impedance	50 Ohms						
Connector	N Plug						

GPS & GLONASS Outdoor Antenna

Centre Frequency Band : 1575.42~1602 MHz

IP67

GPS applications

Environmental & Mechanical Characteristics

Temperature : -40°C to +85°C
Humidity : 95% @55°C
Antenna Housing Colour : Cool Grey 2C
Antenna Housing Material : PC
Weight : 105g
Dimensions : (L) 55mm × (W) 64mm

LNA Specification

Centre Frequency : 1575.42 MHz to 1602MHz
Gain (0°) 1575.42 / 1602 : 28 ±3dB. / 27 ±3dB.
Noise Figure : 3dB typ.
Filter Out band Attenuation : 25dB typ. @ ±50MHz
Output V.S.W.R : 2dB typ.
Operation Voltage : DC = 3V to 5V
Current : DC = 6.5 ±2mA

Overall Antenna Specification

Centre Frequency : 1575.42 MHz to 1602MHz
Zenith Gain (0°) 1575.42 / 1602 : 28.2 ±3dBic. / 28.1 ±3dBic
Output Impedance : 50Ω
Output V.S.W.R : 2 typ.
Operation Voltage : DC = 3V to 5V
Current : DC = 6.5 ±2mA