

SMARTBOX 2

COMBINES REAL-TIME GPS TRACKING, SPECIAL SENSORS PLUS
HIGH CAPACITY BATTERY FOR LONG LIFE, ALL IN ONE UNIT

GPRS terminal adds an altitude and a GPS position and sends all the information to the IoT server in a real time via mobile data. Servers process the data, allowing to view it in the graphs, maps or the generated alerts.

SPECIFICATION

Dimensions: 95 × 144 × 33 mm (+2 mm magnet)

Weight: 436 g

Battery Life: Up to 2 years standby

Operating Temperature: -20 °C to +55 °C

- Easy charging via a docking station
- Water resistant
- Magnets for a strong attachment
- Slots for a strap attachment
- Real-time GNSS tracking
- GSM Cell tower positioning
- Permanent route control
- Two-line OLED display for configuration, diagnostic and control of the SmartBox 2
- Measuring surrounding environment



EMX PROBE MEASURED VALUES



Internal temperature

-20 °C to +60 °C

Resolution: 0.1 °C

Precision: +/- 0.5 °C



Relative humidity

0 to 100 %

Resolution: 1 %

Precision: +/- 2 %



Atmospheric pressure

50 to 115 kPa

Resolution: 0.2 kPa

Precision: +/- 1 kPa



Light levels

1 lx to 50000 lx

256 levels

Spectral range 430 to 610 nm



Tilt & 3D orientation

0 to 180°, resolution: 1 degree

Impact counter

Continuous sampling at 200 Hz

GNSS SYSTEM

U-blox M8 concurrent GNSS module GPS, GLONASS, Galileo, Beidou, 72 Channels engine

Cold Start: 26 s

Hot Start: 1 s

Aided Cold Start: 5 s

A-GNSS: AssistNow Online, AssistNow Offline, D-GPS, Battery backed RAM

External GPS RMA connector (optional)

BATTERY & POWER

LiThium – Ion 12 Ah

Cell type: 4 x Sanyo 18650 Li-Ion

Charging voltage: 5 V / 2 A

Operational temperatures:

Charging: 0 °C to +45 °C

Discharging only: -20 °C to +55 °C

GSM SIM7600G

General Features

LTE-FDD/LTE-TDD/UMTS/HSDPA/HSUPA/HSPA+/GSM/GPRS/EDGE

TCP/IP/IPV4/IPV6/Multi-PDP/FTP/FTPS /HTTP/HTTPS/DNS

SSL3.0/TLS1.0/TLS1.2

Other Features

(U)SIM card (1.8 V /3.0 V)

Frequency	
LTE-FDD	B1/B2/B3/B4/B5/B7/B8/B12/B13/B18/B19/ B20/B25/B26/B28/B66
LTE-TDD	B34/B38/B39/B40/B41
UMTS/HSDPA/HSPA+	B1/B2/B4/B5/B6/B8/B19
GSM/GPRS/EDGE	850/900/1800/1900MHz

