



Specifications

General

Power	Operating Voltage: DC 8V to 32V
Internal Battery	2x18650 Li-ion battery, 3.7V, 5800mAh
Temperature	-> Operating: -30 to +80 [°C] -> Charging: +10 to +45 [°C]
L x W x H	138 mm x 66 mm x 38 mm
Weight	320 g

GNSS Specifications

GNSS Type	u-blox All-in-One GNSS receiver
Sensitivity	Cold start: -148 dBm Hot start: -160 dBm Tracking: -167 dBm
Position Accuracy (CEP)	Autonomous: < 2m
TTFB (Open Sky)	Cold start: 24s average Hot start: 1s average

LTE Specifications

Operating Band	Cat M1: LTE-FDD: B1/B2/B3/B4/B5/B8/ B12/B13/B18/B19/B20/B25/B26/ B27/B28/B66/B85 Cat NB2: (*Cat NB1 is available in Brazil) LTE-FDD: B1/B2/B3/B4/B5/B8/ B12/B13/B18/B19/B20/B25/B28 /B66/B71/B85
Data Transmission	eMTC (DL) 588 Kbps eMTC (UL) 1119 Kbps NB2 (DL) 127 Kbps NB2 (UL) 158.5 Kbps NB1 (DL) 32 Kbps NB1 (UL) 70 Kbps

Connectivity

Bluetooth	Global LTE Cat M1/NB2 with 2G fallback
-----------	--

EGPRS Specifications

Frequency	EGPRS 850 / 900 / 1800 / 1900 MHz
Data Transmission	GPRS: (DL)107Kbps, (UL)85.6Kbps EDGE: (DL)296Kbps, (UL)236.8Kbps

Interfaces

Digital Inputs	1 positive trigger input for ignition detection
Analog Input	1 analog input (0V-32V)
Power Output	1 power output (3.3V) for external devices
Digital inputs/ outputs	4 negative trigger inputs for normal use, or 4 open drain outputs 150mA max drive current
Serial Port	1 RS232 port Cellular Antenna Internal only
GNSS Antenna	Internal only
BLE Antenna	Internal only
Indicator LED	CEL, GNSS, PWR