

FLEET

MANAGEMENT



We offer wide range of fleet management products dedicated for professional applications.

We constantly upgrade our existing products and launch new ones to meet expectations of our customers.

If you do not find a product that can meet your requirements, please contact us as might have a solution available!



FMA120

Small and professional tracker with internal high gain GNSS and GSM antennas, internal backup battery





New generation GSM/GNSS module

With new integrated GNSS module, Your tracking experience will be better than ever before. Even higher sensitivity, faster than ever cold start and almost instant hot start ensures that Your fleet will be tracked precisely.



Various vehicle CAN data

With additional Teltonika Vehicle CAN adapter you will be able to acquire CAN data from any kind of transport such as light vehicles, trucks, buses, agriculture transport, and special transport. Supported vehicles list contains more than 1800 models.



1-Wire

1-Wire® protocol support enables you to identify your drivers and connect temperature sensor. According to iButton® or RFID ID you can prevent unauthorized access to your fleet and temperature sensor allows you to monitor your cargo.



Small case

Easy to install, hard to find! Small case, internal GSM and GNSS antennas allow mount tracker much easier, detect power disconnections with backup battery. Dimensions only 65x57x19 mm.



Trip detection

Easy trip start and stop detection gives you possibility to have the report with correct time, location and driven distance for each trip.

FMA120

FMA120 small and professional tracker with internal high gain GNSS and GSM antennas, which is able to collect device coordinates and other useful data and transfer them via GSM network to server.

This device is perfectly suitable for applications where location acquirement of remote objects is needed: fleet management, car rental companies, taxi companies, public transport, logistics companies, personal cars and so on.

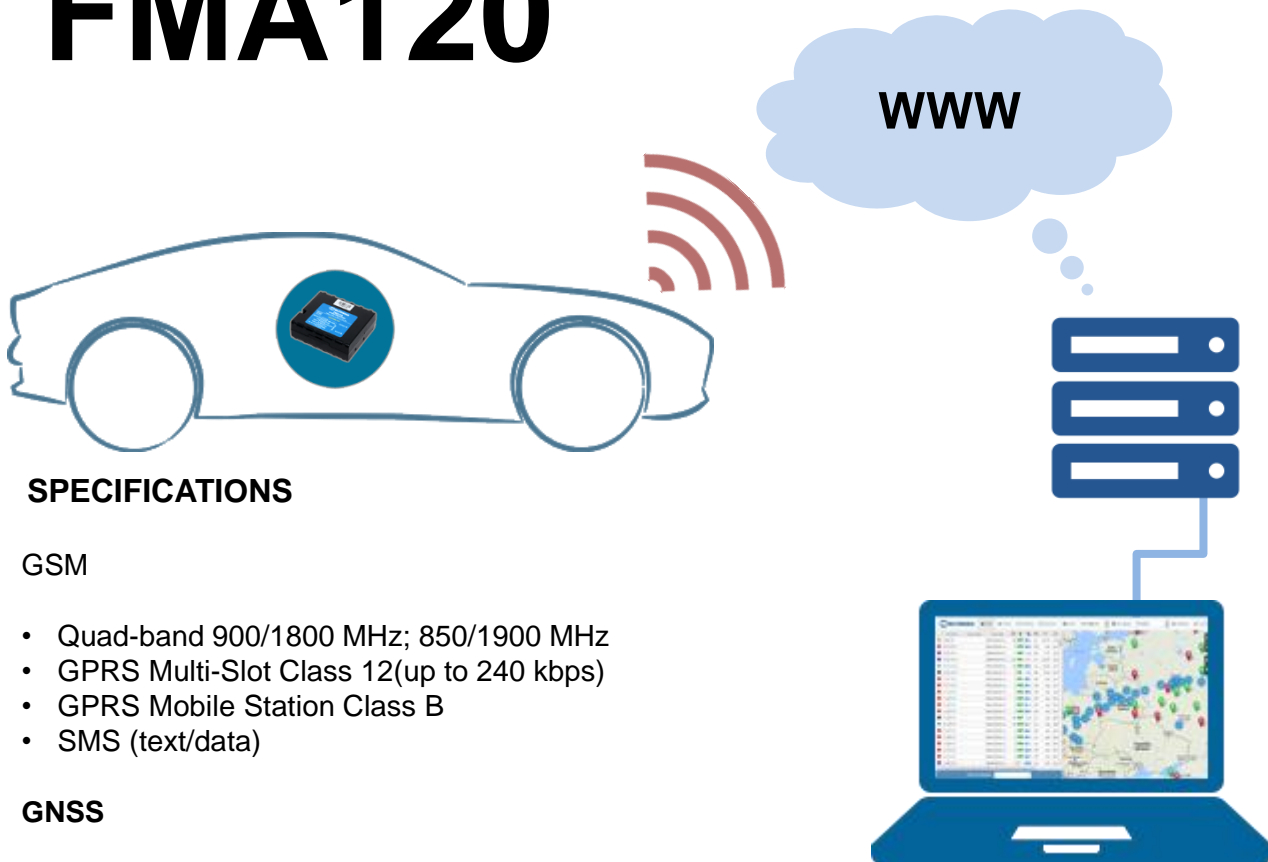
FMA120 can perform tasks on remote objects, such as monitoring engine status, controlling truck's door etc.

FEATURES

- With new integrated GNSS module, your tracking experience will be better than ever before. Even higher sensitivity, faster than ever cold start and almost instant hot start ensures that your fleet will be tracked precisely
- Small and easy to mount case
- High gain internal GSM antenna and internal GNSS antenna allow mount FMA120 much easier
- Real Time tracking
- Smart data acquisition based on time, distance, angle, speed delta, ignition and I/O events allow to have precise online tracker
- Sending acquired data via GPRS (TCP/IP and UDP/IP protocols)
- Smart algorithm of GPRS connections for GPRS traffic saving
- Operating in roaming networks by preferred GSM providers list
- Events from I/O elements detection and sending via GPRS or SMS
- 5 geofence zones (rectangular or circle)
- Auto Geofencing created for car towing detection and car theft prevention
- Deep Sleep mode (less than 6 mA power consumption)
- Firmware and configuration update via GPRS (FOTA)
- 3 operational modes (Home, Roaming, Unknown) based on operator
- Time synchronization by NTP (Network Time Protocol) if GNSS signal is absent
- GSM Anti-jamming detection
- Integrated scenarios:
 - Over speeding to secure driver and prevent penalties
 - Immobilizer function
 - Authorized driving (1-Wire® iButton® ID keys up to 50 iButton keys) is used to prevent stealing or driver identification
- GSM Anti-jamming detection
- Trip start and end detection
- CAN data acquisition from any kind of transport such as light vehicles, trucks, buses, agriculture and special transport with Teltonika Vehicle CAN Adapter

Internal high gain GNSS and GSM antennas with battery

FMA120



SPECIFICATIONS

GSM

- Quad-band 900/1800 MHz; 850/1900 MHz
- GPRS Multi-Slot Class 12(up to 240 kbps)
- GPRS Mobile Station Class B
- SMS (text/data)

GNSS

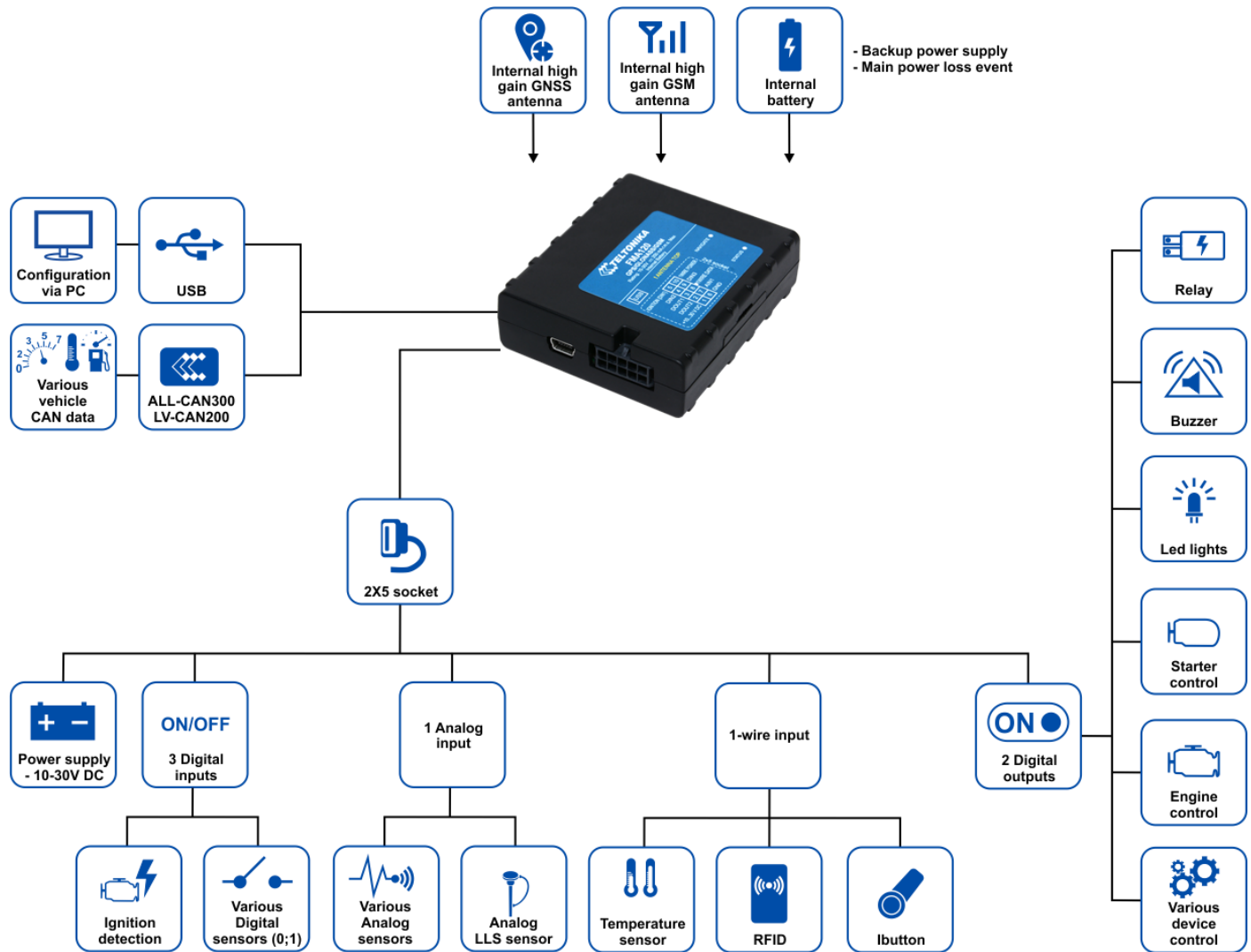
- Tracking: 33/ 99 acquisition channels
- -165 dBm sensitivity
- Hot start <1s
- Warm Start < 25s
- Cold start < 35s
- NMEA-183 protocol
- GPS, GLONASS, GALILEO, BEIDOU, SBAS, QZSS, DGPS, AGPS
- Accuracy < 3m

INTERFACE

- 1 Digital Input Reserved for Ignition Status Monitoring
- 2 Digital Inputs
- 1 Analog Input (10V or 30V range)
- 2 Digital Open-collector Outputs (connecting external relays, LED, buzzers etc.)
- 1-Wire® temperature sensor
- 1-Wire® iButton
- Motion sensor
- Power supply (+10...+30) V DC
- Internal high gain GSM antenna
- Internal high gain GNSS antenna
- Integrated LiPo back-up battery
- Dimensions: L(65mm)xW(56,6mm)xH(18,9mm)
- 2 Status LEDs
- USB Port



FMA120

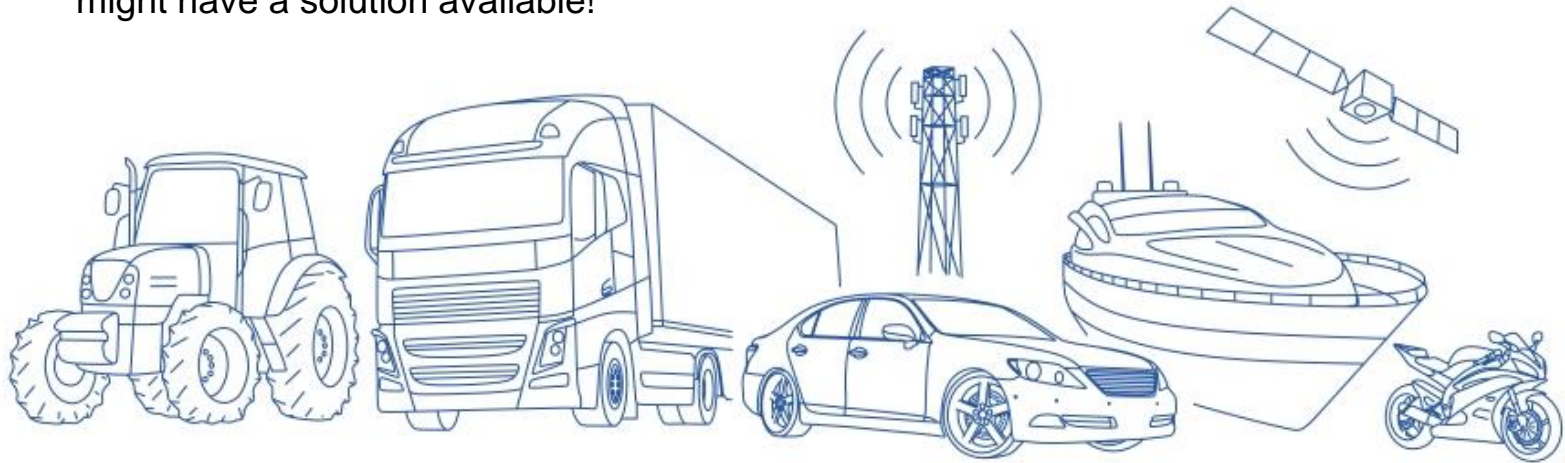


ACCESSORIES

- USB to mini USB cable
- RFID (1-Wire interface) support
- Analog fuel sensor
- Relay 12V/24V
- LED
- Main socket 2x5
- 1-Wire temperature sensor (TTJ)
- 1-Wire iButton and iButton reader
- Door sensors
- Alarm button
- Buzzer



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with internal high gain GNSS
and GSM antennas.





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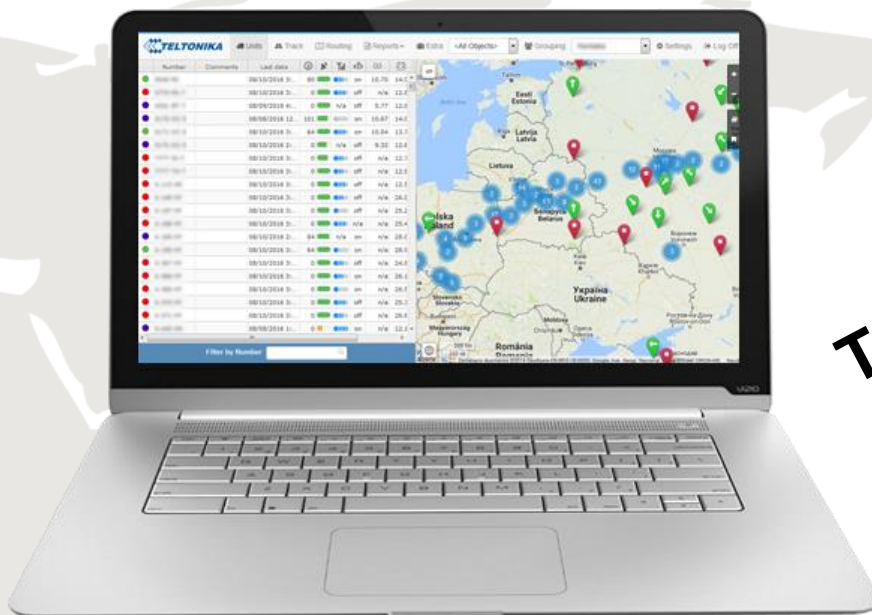
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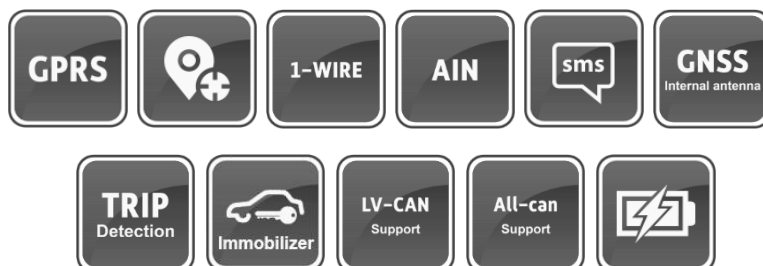


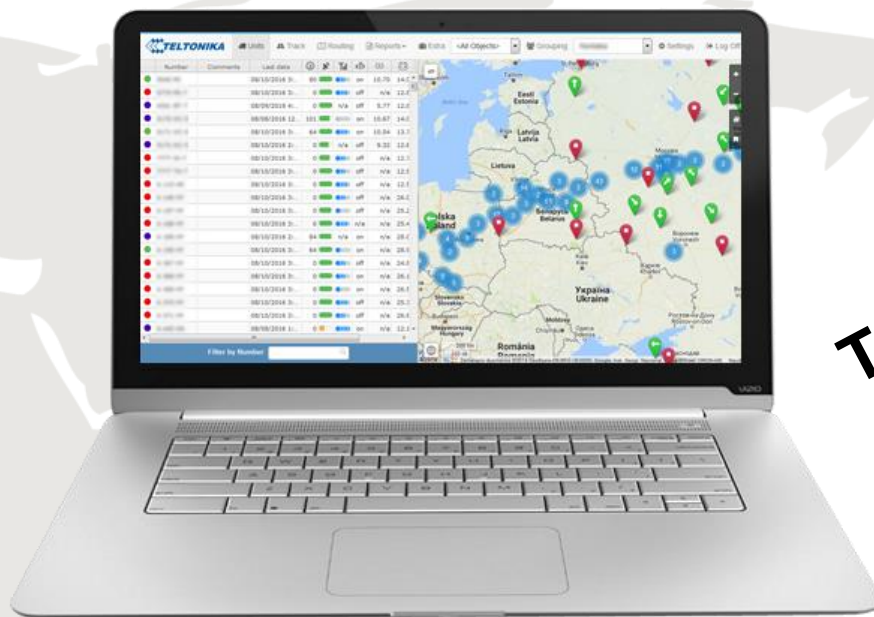
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TAVL WEB





TAVL WEB

Teltonika **TAVL WEB** Solution is fast and easy way to monitor and track Your fleet. Solution is easily manageable and does not require any software installation. Everything is accessible via a web page.

With TAVL WEB you will be able to optimize your fleet, decrease vehicle maintenance cost and improve overall fleet performance.



Monitoring

Monitor newest information about objects position, date and time, speed, vehicles ignition state, battery power etc.

Web access

Monitoring of your whole fleet from within a single, web browser-based interface.

Reports

The most important reports to handle your fleet efficiently (Driven distance, Trip stops, Fuel tank, work time, etc.).

Features that go further

Geozones



Rules



Warning



SMS Messaging



GPRS



Garmin



OPTIONAL OPERATIONS & EQUIPMENT

LV-CAN200

Light Vehicles Can Adapter



- ▶ Power supply (+9... +50)V DC
- ▶ LV-CAN200 is designed to read CAN data from light vehicles
- ▶ Ability to collect and send vehicle data when using LV-CAN200 with FM11YX or FM5300* GPS/GSM Terminals.
- ▶ More than 1000 cars are supported
- ▶ Readable data:**
 - Vehicle Driven Distance
 - Total fuel consumption
 - Fuel level (Dashboard)
 - Engine speed (RPM)
 - Vehicle speed (wheel)
 - Acceleration position

* Special firmware version must be installed on FM5300 to support LV-CAN200

** Data is available depending on vehicle's equipment, module, type and years.

TECHNICAL DETAILS

- ▶ Power supply (+9... +50)V DC
- ▶ Power supply current:
 - Active mode max 50mA
 - Standby mode max 2mA
- ▶ Working temperature -40..85 °C
- ▶ Max working humidity 85 % (non condensate)
- ▶ Status LED

LV-CAN200

Light Vehicles Can Adapter



If You think, this is not enough to win ALL Your potential customers - please contact us to get advices how to use it in Your application!

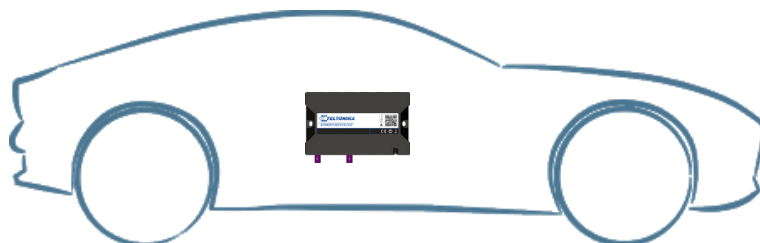


RUT-850



RUT850 is compact slim design LTE wireless router.

Router support latest IEEE802.11n and IEEE802.11b/g WLAN standards and provide wireless receiving and transmitting rate up to 150 Mbps. LTE up to 100 Mbps DL and 50 Mbps UL.



Whether it is a long family trip, a camping spot or a need to access a backend office – RUT850 is a perfect choice. This sleek automotive router supports high speed LTE CAT3, which provides speeds of up to 100Mbps for your leisure or business demands.



Connect multiple devices, watch movies, video streams, or connect to remote surveillance equipment with ease. With support of latest IEEE802.11n and IEEE802.11b/g WLAN standards you can be sure, that full LTE potential can be realized: no bottlenecks from LTE to WiFi



RUT850 can be used either in light vehicles or busses, trucks and other heavy transport, which utilizes 24V battery. This is achieved by wide input voltage range (7- 30Vdc) and voltage surge protection – no need for additional surge protection equipment. Power supply socket connector has an Ignition digital input, which controls router's sleep mode status.



Set up your internet connectivity and be ready to go in minutes with just a few clicks from your smartphone. Manage and monitor router's performance without physically connecting to the device.



Manage your routers fleet remotely. With full support of centralized Teltonika Remote Management System you will be able to access, control and monitor all of your routers within a single platform. This will help you make better decisions for future installments and best-use practices.

RUT-850

HARDAWARE

- LTE
- WiFi
- 7 – 30 VDC
- Internal WiFi antenna
- Input for Ignition
- SIM card drawer

SOFTWARE

- Dynamic DNS
- Periodic reboot
- SMS Control / Gateway
- Mobile on Demand
- Hotspot
- Mobile Quota Control
- Backup WAN
- NTP
- Ping Reboot
- Web Filter
- Sleep Mode



LTE

FDD 2100(B1)/1800(B3)/850(B5)/2600(B7)/900(B8)/800(B20) MHz
Up to 100 Mbps downlink speed | Up to 50 Mbps uplink speed
All bands with diversity

UMTS

2100(B1)/850(B5)/900(B8) MHz
DC-HSPA+ mode: 42 Mbps downlink speed | DC-HSPA+ mode: 5.76 Mbps uplink speed
UMTS mode: 384 kbps DL, 384 kbps UL
RX diversity antenna

UMTS

2100(B1)/850(B5)/900(B8) MHz
DC-HSPA+ mode: 42 Mbps downlink speed | DC-HSPA+ mode: 5.76 Mbps uplink speed
UMTS mode: 384 kbps DL, 384 kbps UL
RX diversity antenna

GSM/GPRS/EDGE

850/900/1800/1900 MHz
Power Class 4 (33dBm \pm 2dB) for GSM 850/900MHz
Power Class 1 (30dBm \pm 2dB) for GSM 1800/1900MHz
Power Class E2 (27dBm \pm 3dB) for EDGE 850/900MHz
Power Class E2 (26dBm +3/-4dB) for EDGE 1800/1900MHz
GPRS: 85.6 kbps DL, 85.6 kbps UL | EDGE: 236.8 kbps DL, 236.8 kbps UL

ELECTRICAL, MECHANICAL & ENVIRONMENTAL

Dimensions (H x W x D) 131 mm x 79 mm x 17 mm / Weight 106 g
Input voltage range 7 – 30 VDC / Power consumption < 5 W
Operating temperature -40 °C to 75 °C
Storage temperature -45 °C to 80 °C
Operating humidity 10 % to 90 % non-condensing | Storage humidity 5 % to 95 % non-condensing

WiFi

IEEE 802.11b/g/n WiFi standards
AP and STA modes
64/128-bit WEP, WPA, WPA2, WPA&WPA2 encryption methods
2.401 – 2.495 GHz WiFi frequency range
20dBm max WiFi TX power
SSID stealth mode and access control based on MAC address

