EMITTER ELECTRONICS
innovative · reliable · flexible

MMX GNSS/GPRS MODEM

Features and Benefits

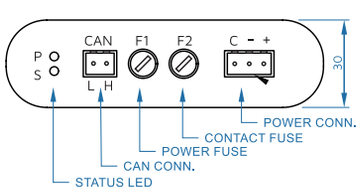
1. **Worldwide access to your vehicles or machines CAN data via the internet**
2. **Global navigation satellite system and cellular network for telemetrics services**
3. **Enables online access using any screen**
4. **Robust CAN hardware**
5. **Cloud-based and modern design Data Platform for powerful fleet management**
6. **Improves safety, efficiency and increases fleet visibility**

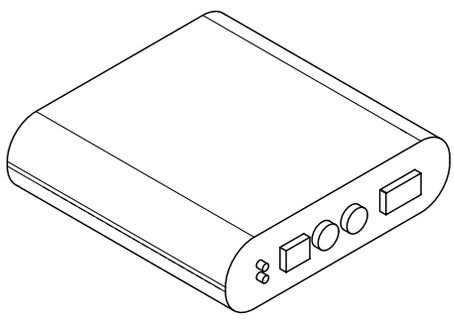
The Emitter telemetric system consists of one or several CAN IO controllers (nodes) which collect telematic data from chassis and superstructure such as system and diagnostics data, vehicle CAN data etc, a GNSS/GPRS modem with integrated eSIM for tracking and sending the data to the cloud, cloud platform to store data for years, and a responsive web portal to visualize and act on the insights.

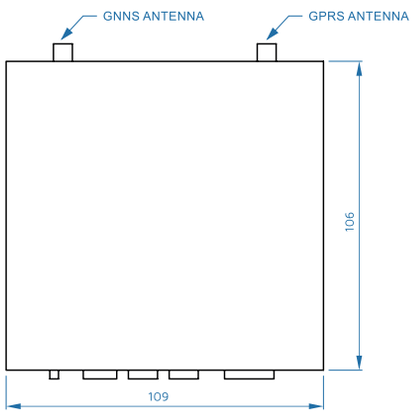
All sensors and actuators are connected to MMXEC1 I/O node. The I/O node communicates with GNSS modem via CAN bus.

V200120_V1.0-ENG

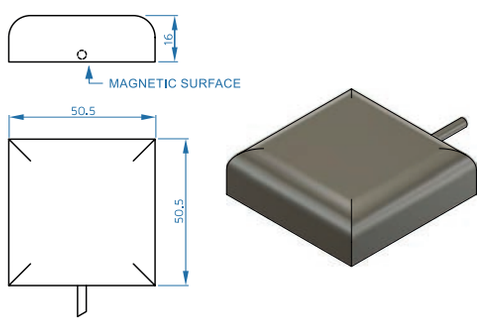
GNSS/GPRS MODEM







GNSS ANTENNA



Real-time map
Scalable cloud-based platform collects and analyses data from connected vehicles and allows generating detailed and customized reports, actions, triggers and events to keep full control over your fleet. The interactive map is scalable and can be accessed from any device, such as PCs, notebooks, tablets, smartphones etc. View the current state of your engine and deep-dive into its historical data. Telematics data are based on a so-called "trip", a complete log from the moment a vehicle is turned ON until it's turned OFF again.

A log of records usually consists of:
GPS timestamp and location, GPS speed, GPS direction, vehicle status (ignition ON/OFF), vehicle voltage, driving and total working time, distance travelled, water and foam tank level, fuel level as well as digital or analogue IO status, RPM, Harsh acceleration, braking and cornering, etc. This offers you also a total control over the maintenance process of your fleet.

Specifications

POWER	
Supply Voltage	8-30 V DC
Current	1 A maximum
Current average at 24 V	< 100 mA
Electrical Protection	overvoltage, transients, reverse polarity via internal fuse
INTERFACES	
CAN	1 x CAN
CAN termination	no, use external resistor, CKIT DTM YT or similar
GNSS	Professional Global navigation satellite system module, GPS, GLONASS, Galileo, BeiDou
GPRS	HSPA/GSM 3G module, 3G bands 900/2100 Mhz and 2G bands 900/1800 Mhz
ENCLOSURE	
Housing modem	Material Aluminium
Mounting	Inside the vehicle with cable ties
Mounting GNSS antenna	Antenna has magnetic surface
Connector power supply	Terminal block 2way
Connector CAN	Terminal block 3way
Connector GNSS/ GPRS	SMA connector type
ENVIRONMENT	
IP Class (IEC529)	IP4x
EMC Conformity	EN61000-6-2 noise immunity EN61000-6-4 radiation of interference
Temperature Range	storage -40° to +85°C (-40°F to 185°F) operating -40° to +85°C (-40°F to 185°F)

MISCELLANEOUS	
LED indicator	2x red/green for GNSS, CAN and Contact signal and server connection
Connectors	Power and CAN: Terminal block 2way, 3way, GNSS and GPRS antenna: SMA connector
SIZE AND WEIGHT	
W x H X D [mm]	109 x 106 x 30
Weight	0.3 kg with GNSS and GPRS antenna

Ordering Codes

MMXGNSS	GNSS/GSM modem with GPS and GSM antennas
For more options please contact the supplier.	

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