



GPS 4M

Advanced car GPS module
for Tetrapol vehicle terminals



ATEST
8SD
3277



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GPS 4M is a **car GPS receiver** available as an optional accessory for **TPM700** vehicle transceiver. The GPS receiver is used to receive geolocation data from the global satellite positioning system GNSS Navstar and **transmit the geolocation data** through the Tetrapol radiocommunication system to the automatic vehicle location (AVL) system. The device is an **all-Czech product** certified with **ATEST 8SD**.

- **50-channel GPS receiver** furnishing parameters that are better than SiRF III
- **Powered** directly from the TPM700 vehicle terminal
- **Minimum power consumption** – up to 100 mA
- Positioning data processing maximum 5 times per second, typical period is 5s
- Internal memory to **store positioning data**
- Compatible with the data interface of the **TMP700** vehicle terminal
- Transmission of **AVL** positioning data based on the **Tetrapol** standard
- **Windows application** for diagnostics, configuration, firmware upgrades and GPS log display
- The operating temperature range of the device is between **-40 and 85°C**
- **Hardwearing moulded casing** for the GPS receiver unit and for the integrated electronic and data connector unit

Technical specification of GPS 4M

Parameter	Values
Processor:	Atmel ATtiny85
GPS chipset:	ADH GP-635T
Receiver parameters:	50 channels, sensitivity -161 dBm, warm start 1s, cold start 27s
Accuracy:	Horizontal accuracy better than 2.5 m, speed accuracy better than 0.1 m/s, time accuracy 30 ns (RMS)
Operating ranges:	Max. velocity 1852 km/h, max. altitude above sea level 50 km, dynamics 4 G, operating temperature between -40 and 85°C
Position processing:	Max. frequency of measurement 5 Hz, implicit period 5s, values stored in the memory – more than 8 hours at 10 minute intervals
Power supply:	10 – 15 V DC, max. consumption 100 mA
Connection:	Powered from the TPM700 cable harness, data connection to BER transceiver through a proprietary DB9M connector
Software:	Proprietary Windows PC application for diagnostics and configuration of the GPS kit, firmware updates and displaying of positions from the memory log
Certification:	ATEST 8SD

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