GPRS device S8.2
GSM/GPS/GPRS

- GSM/GPRS Modem 850/900/1800/1900 MHz SIMCOM
- Externall active GPS antenna (3 meters/SMA connector)
- Externall 4 band GSM antenna (3 meters/SMA-RP connector)
- GPS Quectel L10 receiver (Sensitivity 165dBm, anti-jamming feature)
- Internall battery for RTC (Real Time Clock)
- External RS-232 or RS-232-TTL (RS-485 optionally)
- Integrated/internall accumulator, with supply control of accumulator connection to device (550 mAh)
- ABS plastic cover - dimension: 89x63x30 [mm]
- Archive memory min. 24,000 telemetry data frames
- LED diodes to signalize GSM signal quality and quantity of GPS satellites
- 1-Wire Dallas protocol support (driver identification, thermometers)
- GPS antenna presence - real time status!
- 2 inputs (mass)
- 1 impulse counter
- 2 outputs (open collector type)
- 2 analog inputs (to measure voltage of fuel probes)
- 1-Wire input (drivers identification, temperature measurement)
- RS-232-TTL communication port

GPRS device S8.3
GSM/GPS/GPRS/FULL CAN/

- Integrated inside CAN LOGISTIC module (J1939, J1708, FMS, OBDII) - more then 400 supported car models and machines!
- GSM/GPRS Modem 850/900/1800/1900 MHz SIMCOM
- Externall active GPS antenna (3 meters/SMA connector)
- Externall 4 band GSM antenna (3 meters/SMA-RP connector)
- GPS Quectel L10 receiver (Sensitivity 165dBm, anti-jamming feature)
- Internall battery for RTC (Real Time Clock)
- External RS-232 or RS-232-TTL (RS-485 optionally)
- Integrated/internall accumulator, with supply control of accumulator connection to device (550 mAh)
- ABS plastic cover - dimension: 89x63x30 [mm]
- Archive memory min. 24,000 telemetry data frames
- LED diodes to signalize GSM signal quality and quantity of GPS satellites
- 1-Wire Dallas protocol support (driver identification, thermometers)
- GPS antenna presence - real time status!
- 2 inputs (mass)
- 1 impulse counter
- 2 outputs (open collector type)
- 2 analog inputs (to measure voltage of fuel probes)
- 1-Wire input (drivers identification, temperature measurement)
- RS-232-TTL communication port
**Basic information**
- GSM/GPRS Modem 850/900/1800/1900 MHz (SIMCOM)
- GPS Quectel L10 receiver (Sensitivity 165dBm, anti-jamming feature)
- Internal battery for RTC (Real Time Clock)
- External RS-232 or RS-232-TTL (RS-485 optionally)
- Integrated/internal accumulator, with supply control of accumulator connection to device (550 mAh)
- External active GPS antenna (3 meters/SMA connector)
- External 4 band 850/900/1800/1900 MHz GSM antenna (3 meters/SMA-RP connector)
- ABS plastic cover - dimension: 89x63x30 [mm]
- Archive memory min. 24,000 telemetry data frames
- LED diodes to signalize GSM signal quality and quantity of GPS satellites
- 1-Wire Dallas protocol support (driver identification, thermometers)
- GPS antenna presence - real time status!

**Technical information**
- Device power supply from +8V up to 31V
- Average power consumption
- Sleep mode:
  - 29 mA +/- 5% for I=12.7V
  - 20 mA +/- 5% for I=25.4V
- Active mode:
  - 54 mA +/- 5% for I=12.7V
  - 32 mA +/- 5% for I=25.4V
- Temperature range from -30°C up to +85°C

**Inputs/outputs summary**
- 2 inputs (mass)
- 1 impulse counter (+)
- 3 outputs (open collector type)
- 2 analog measure inputs (can be use with fuel probes)
- 1-Wire (driver identification, thermometers)
- RS-232
- RS-232-TTL (optional)
- RS-485 (optional)

**Configuration**
- Remote: SMS, GPRS, TCP
- Local: PC software with programming cable

**Different tracking modes**
- 7 different tracking modes (also depends from ignition)
- Time mode
- Distance mode
- Different tracking settings for Roaming network

**Additional information**
- Counting of GPS distance - using special algorithm
- SIM CARD data limits control
- Daily limits of GPRS connection
- Daily limits of SMS
- Additional algorithm to stabilize fuel probe measure

**Main parameters reading by GPRS device**
- RTC time (synchronized with GPS - using special algorithm)
- GPS data: longitude and latitude, angle, satellites, speed km/h
- GPS distance counter (GPS odometer) (device is counting distance traveled by vehicle using advanced algorithm) value is always remembered in device memory
- EVENTID (telemetry dataframe identification)
- All input status
- All outputs status
- Main supply
- Internal accumulator supply
- Internal accumulator connection state (connected/disconnected)
- GPS antenna presence - real time information when antenna is disconnected by unknown person in vehicle
- SIM CARD network state (home/Roaming)
- GSM quality signal
- GSM code of actual GSM operator
- GPS receiver status (working fine/not working)

**Individual options for partners**
- Default configuration according to customer wish
- Special commands
- Marking of plastic cover
- Dedicated solutions
**Basic information**

- **GSM/GPRS Modem** 850/900/1800/1900 MHz SIMCOM
- **Integrated inside CAN LOGISTIC module** (J1939, J1708, FMS) - almost 400 supported car models and machines
- External active GPS antenna (3 meters/SMA connector)
- External 4 band GSM antenna (3 meters/SMA-RP connector)
- GPS Quectel L10 receiver (Sensitivity 165dBm, anti-jamming feature)
- Internal battery for RTC (Real Time Clock)
- External RS-232 or RS-232-TTL (RS-485 optionally)
- Integrated/internal accumulator, with supply control of accumulator connection to device (550 mAh)
- ABS plastic cover - dimension: 89x63x30 [mm]
- Archive memory min. 24.000 telemetry data frames
- LED diodes to signalize GSM signal quality and quantity of GPS satellites
- 1-Wire Dallas protocol support (driver identification, thermometers)
- GPS antenna presence - real time status!

**Technical specification**

- Power supply from +8V up to +31V
- Average power consumption
  - Sleep mode (5 min after ignition on):
    - 29 mA +/- 5% for Uzas=12.7V
    - 20 mA +/- 5% for Uzas=25.4V
  - Active mode (ignition on):
    - 54 mA +/- 5% for Uzas=12.7V
    - 32 mA +/- 5% for Uzas=25.4V
  - Temperature range from -30'C up to +85'C

**Inputs/outputs description**

- 2 inputs (mass)
- 1 impulse counter
- 2 outputs (open collector type)
- 2 analog inputs (to measure voltage of fuel probes)
- 1-Wire input (drivers identification, temperature measurement)
- RS-232-TTL communication port

**Configuration**

- Remote: SMS, GPRS, TCP
- Local (PC application + cable to programming)

**Different tracking modes**

- 7 different tracking modes (in view of ignition)
- Other settings for Roaming network
- Time mode, distance mode, intelligent mode

**Additional information**

- Individual connection schemes to CAN bus J1939, J1708
- Counting distance on the basis of GPS data
- SIM CARD data limits control
- Daily limits of GPRS connection in Roaming or Home network
- Daily limits of SMS
- Additional algorithm to stabilize fuel probe measure

**Device firmware softupdate**

- Remote update using FTP protocol
- Remote update CAN LOGISTIC module

**Connector description:**

1. Power supply input (8V - 31V)
2. n/a
3. Ignition input (+)
4. Input (-)
5. Input (+) / analog measurement 0-36V
6. Main mass input (GND)

**Connector description:**

1. Input (-) or optional output open collector (300 mA)
2. Output open collector (300 mA)
3. Input CAN-H (CAN bus J1939)
4. Input CAN-L (CAN bus J1939)
5. Input J1708A (CAN bus J1708)
6. Input J1708B (CAN bus J1708)
7. Counter input
8. Input (+) / analog measurement 0-36V

**Connector description:**

1. Mass (GND)
2. TxD (for use communication RS)
3. RsD (for use communication RS)
4. Voltage power supply for Dallas thermometer (3.7V)
5. 1-Wire input (drivers identification, temperature measurement)
6. Power supply 3.3V (LED diode of Dallas reader)

**Main parameters reading by GPRS device and CAN LOGISTIC**

- Logistic data from CAN: total distance from counter, total fuel consumption, fuel level, engine speed, vehicle speed, engine temperature and refrigeration fluid, total engine work time, total driving time, total engine work time on stop, pressure on the accelerator, range vehicle, temporary fuel consumption, pressure on the axle (4 axles)
- Active over 30 vehicle indicators (non-use belts, "checkengine", service)
- Counting module of rapid accelerations and brakings (individual configuration)
- Advanced ECO DRIVING (exceeded speed, exceeded engine speed, time on exceeded pressure on the accelerator, time on exceeded speed)
- Full combination supported cars and machines (almost 400 models)
- Automated procedure of configuration and synchronization CAN LOGISTIC
- Tachograph (readout work status and numbers from two drivers card)
- Time RTC (synchronized with GPS - using special algorithm)
- GPS data: longitude and latitude, angle, satellites, speed km/h, distance from GPS
- Current status all inputs/outputs and voltages

**Individual options for partners**

- Default configuration according to customer wish
- Special commands
- Individual plastic cover
- Marking and packing device (adjustment main label)
Logistic module for Terminal GPRS S8.3

**Detailed description**

**Basic information**
- Professional CAN module internal integrated in Terminal GPRS S6.3
- Supported over 350 models passenger vehicles, trucks, delivery and building machines - current list is available upon request
- **PLUG&GO** - module contain special algorithm, that guarante correctness available parameters. After installation device is ready to use!
- **CAN1939 & J1708 & FMS...** - To operate that big vehicle list was integrated additional protocol enabling parameters readout like J1708 or FMS
- **AUTOSYNC** - Automatical synchronization - after installation, device automatically find car model to which is connected (100% effectiveness)
- Guarante readout available parameters that are described on supported vehicles list
- Precision information about available parameters and dedicated scheme for suitable vehicle
- **CAN UNIFICATION** - mean, that all data are sending in the same units
- Remote update (via Terminal GPRS S6 and S8) and full configuration
- CAN module internal integrated in Terminal GPRS S6 and S8 plastic cover
- Readout data from z Renault and Volvo with use internal integrated data bus J1708 (not require additional accessories)
- **Pulsing** - calibrated distance readout, among other things in KIA
- Module storing and providing summed value (distance from counter, fuel consumption, acceleration, braking, engine work time and others) time for generating reports is short
- Remote diagnostic with data readout problems from CAN. Possibility to adding unsupported parameters with use diagnostic server

**Software update**
- Remote (via Terminal GPRS): TCP/FTP

**Default configuration:**
- Individual - adjustment to client needs

**Reading logistic parameters:**
- Ignition, engine work status
- Total distance of vehicle reading from counter
- Engine speed
- Fuel level
- Total fuel consumption, total fuel consumption on stop
- Pressure on the accelerator
- Vehicle speed
- Total driving time, total stops time on working engine
- Total engine work time (motogodziny)
- Engine temperature
- Oil temperature and refrigeration fluid
- Range vehicle (quantity of kilometers that you can drive on this fuel)
- Temporary fuel consumption
- Data from tachograph (connect via CAN):
  - Two drivers mode
  - Numbers of two drivers cards
  - Limits drivers work time
- Information about exceeded limits
- Pressure on the axes (4 axles)
- Engine speed
- **ECODRIVING**
  - Module counting rapid accelerations and brakings with use advanced algorithm (user can configure parameters)
  - Exceeded engine speed (event)
  - Driving time on exceeded speed (time)
  - Driving time on exceeded engine speed (time)
  - Driving time on exceeded rapid on the accelerator (time)

**Readout information about indicators in vehicle:**

Sensor driver belt | fuel reserve indicator status | air conditioning status | heater Webasto | brake pedal (pressed, unpressed) | lights up „stop“ | clutch pedal | handbrake – on, off (lights up indicator) | cruise status reverse gear – on, off (lights up reversing lights) | parking lights | dipped headlights | full beam headlights | fog lights | front fog lights | rear fog lights | low brake fluid level | low refrigeration fluid level | accumulator charge indicator | brake system indicator (brake system fault notification) | oil pressure indicator | engine temperature indicator | ABS system indicator | ESP system indicator | engine fault indicator („check engine“) | airbags indicator | call to service indicator | oil level indicator | used belt (turn off indicator) | non-use belt (turn on indicator) | doors closed | doors open | trunk closed | trunk open | central lock open | central lock closed | car closed via pilot | car didn’t closed via pilot | factory alarm status: factory alarm inactive | turning on factory alarm | factory alarm work | factory alarm activate