



VEHICLE TRACKING AND SECURITY SYSTEM PERGO F60 TECHNICAL SPECIFICATIONS

| HARDWARE | |
|--|---|
| GPS Specifications | |
| GPS Chipset | U-BLOX5 |
| Antenna | Internal (Passive Antenna) |
| Cold Start | 29 seconds |
| Warm Start | 29 seconds |
| Hot Start | 1 second |
| GPS Sensitivity | -160 dBm |
| SuperSense Indoor GPS | Yes |
| Positioning System | GPSL1, GALILEOL1, SBAS, WAAS, EGNOS, MSAS, GGAN |
| Number of GPS Receiver Channels | 50 |
| Assist-GPS | Available |
| GSM Modem Specifications | |
| GSM Protocol | Class 10 |
| GSM Modem | Quart Band 800/900/1800/1900 |
| Antenna | Internal |
| SIM Card | Internal |
| External Components of Hardware | |
| Number of Simultaneous Hardware Supported | All additional hardware can be serially connected at the same time. |
| In-vehicle motion detection sensor (PIR) | Available (Optional) |
| Temperature sensor | Available (Optional) |
| Digital Camera Support | Available (Optional) |
| Proximity Card Reader Support | Available (Optional) |
| Multiple Input/Output Support | Available (Optional) |
| LCD Message Unit and KeyPad | Available (Optional) |
| Communication | / Wallable (Optional) |
| GPRS | Available |
| SMS | Available |
| DataCall | Not supported |
| Radio | N/A |
| Satellite | N/A |
| Positioning | INA |
| GPS positioning | Available |
| A-GPS Support | Available |
| GSM Cell Information Sending | Available |
| MPS (Mobile Positioning System) | N/A |
| Casing | IV/N |
| Dimensions | 72 x 46 x 17 mm (55 cubic cm) |
| Weight | 42 grams (excluding internal Li-ion battery) |
| Casing standard | IP44 |
| Other Specifications | n au |
| Operating Voltage | 6 V DC – 35 V DC |
| Operating Voltage Operating Temperature | -30°C +70°C (excluding battery) |
| | -50°C +70°C (excluding battery) |
| Battery Operating Temperature (Li-lon) | -20 C +00 C |
| Power Consumption Under Normal Conditions | 180 mW |
| Power Consumption During | 1W |

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| Reception/Sending (Average) | |
|---|--|
| | Between 0.1 mW and 3 mW depending on the pow |
| Power Consumption in Sleep Mode | supply and shutdown status |
| Automatic wake-up from sleep mode | Available |
| Automatic start-up | Available Fixed: Starts/shuts down according to vehicle's ignition information. Mobile: It can be started/shut down using the butto If not shut down, it automatically goes into sleep mode during immobility. |
| GPRS connection time | 5-25 seconds |
| Hidden installation inside the vehicle | Yes |
| Stopping the vehicle remotely | Available. Requires optional RELAY connection. Vehicle can be stopped by SMS message to be sent from mobile phones of authorized persons or using the desktop application. |
| Number of external connectors | 1 (Power, Ignition Switch, RS232, Emergency, RELAY Fuel/Temperature) |
| Color classification in connectors | Single connector is used for all connections. |
| Visual Status Notification | LEDs in 4 different colors (Charge, Power, GPS, GSN |
| Microphone | Internal |
| Internal Battery | Li-ion |
| Chargeability | Available |
| Offline Position Recording | Available – Capacity to store 100.000 position data |
| External Emergency Connection Port | Available |
| Voice Call | One-sided / can be started and ended automatically and by the Center. |
| Firmware Updateable over GPRS | Available – Automatic version check and update by the Center |
| Reading and changing operating settings over GPRS | Available |
| Position data compression | Available – Total 15 bytes of data sent includes latitude, longitude, speed, direction, height, numbe of satellites, position accuracy and distance information. |
| Minimum position transfer interval | 1 second |
| Foreign operator connection control | N/A (can be set from the operator) |
| Message send/receive | Available. (LCD Message module required) |
| Installation under the vehicle using magnets | Available. |
| Certification by Telecommunications Agency | GSM and GPS Engine are certified by Telecommunications Agency. |
| Communication with the Center | Over TCP/IP - TCP Socket |
| Secondary connection support | Available. If no connection is established with the Center over defined primary GPRS connection, secondary GPRS connection is used for communication. |
| Operating without connection to Center | Available. It does not transfer position data continuously. It delivers to mobile phone via SMS only when requested. It automatically sends SMS messages in alarms and violations. |
| 3D axis sensor | Available |
| | |
| Guarantee | 2-year Guarantee |

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| Alarms Generated | | |
|--|---|--|
| Emergency Alarm | Available | |
| Notifying the Center when external power supply is disconnected or reconnected | Available | |
| Notifying the Center in case of any change in vehicle's geographical coordinates when ignition switch is turned off (towing of vehicle by another vehicle) | Available | |
| Notifying the Center in unauthorized usage. | Available (30 phone numbers can be defined) | |
| (Alarm is not generated when it is called using | If prevention of vehicle start is desired, RELAY | |
| the defined mobile phone.) (E-PARK) | connection is required. | |
| Motion detection inside the vehicle in E-PARK | Available (Optional PIR sensor) | |
| | | |
| Restriction Controls | | |
| Distance Calculation | Available | |
| Speed Limit Control | Available | |
| Idle Running Time Calculation | Available | |
| Sudden acceleration and deceleration | Available | |
| Geographic Coordinate Arrival | Available (200) | |
| Sudden fall in fuel level | Available (requires connection of related cable) | |
| Change in magnetic sensor value | Available (requires connection of related cable. It can be used to control vehicle's hood or damper). | |
| | | |

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