



FleetData's tracking system provides the ideal solution to low cost automatic vehicle location, GPS tracking and data dispatch applications. The FD420 combines GPS tracking via CDMA (1xRTT) or GSM (GPRS) for true mobile data communications applied to fleet management, dispatch, vehicle tracking and asset control.

Combine the FD420 module with FleetData's own real time fleet management and mapping applications for Windows OS and Linux to realise the leading end-to-end tracking and mobile data solution.

Key Features

- Low-cost highly integrated mobile tracking and telemetry module
- Supports either GSM (GPRS) or CDMA (1xRTT) internal modem.
- TCP/IP UDP data transfer over GPRS with failover to internal logging.
- Internal logging of 32,000 points
- User configurable logging and status alerts
- 4 protected digital alarm inputs
- Vehicle ignition status detection
- Easy installation
- Fully configurable over-air
- Firmware upgradeable over-air
- LED indicator of status and activity
- Internal integrated GPS module
- 1 x DCE console serial port
- 1 x DTE peripheral serial port
- 12 & 24 volt vehicle compatibility
- PDA connection via serial port or optional Bluetooth module.

Applications

- Fleet management
- Vehicle tracking
- Asset control and tracking
- Remote telemetry control & monitoring

Specifications

Physical

Dimensions 140 x 80 x 30mm
Casing Extruded Aluminium
Weight 210 grams

Connectors

Internal Modem SMA Female
Internal GPS SMA Female
I/O & Power connectors 8 way locking
Console Serial 9 Pin RS232C DCE
Device Serial 9 Pin RS232C DTE
Status Indication 2 x LEDs

Hardware

Processor 32 bit ARM7 Core
Flash Memory 512Kb
RAM & FRAM 64Kb
Memory Expansion Internal SD card slot

GPS

Satellites tracked 12 parallel channels
Position accuracy 10m (CEP)
Time accuracy 1 us
Maximum altitude tracked 18,000m
Maximum velocity tracked 138 m/s
Cold/Warm/Hot start time 60/50/20 sec.

Internal Modem

GSM (GPRS) Dual Band 850/1900 MHz
or:
CDMA (1xRTT) Dual Band 800/1900 MHz

Environmental Specifications

Operating temperature -10°C to +60°C
Storage temperature -20°C to +80°C
Relative humidity 10% to 90% RH

Power

Operating Voltage 10 to 28VDC
Current consumption : standby 5mA @ 12V
Current consumption : nominal 40mA @ 12V
Current consumption : maximum 500mA @ 12V

IO Interface

Alarm inputs 4 x protected digital
Control outputs 2 x open collector
Serial ports 1 x DCE and 1 x DTE

Included

- Installation guide
- Active GPS antenna & Mobile antenna
- Power & interface cable

Optional Accessories

- Multi-IO module (Analog & CAN bus)
- Bluetooth interface module
- UHF panic button (*)
- Internal lithium polymer battery (*)

* To Be Determined
Specifications are subject to change without notification.