

F2 LTE Advanced



Built for reliability and flexibility, the F2 LTE features an internal 4G modem with 2G fallback, plus optional internal WIFI and external Iridium satellite modem ensuring continuous connectivity across any terrain.

It includes an integrated CAN Bus J1939 transceiver and supports OBD II via an external interface, enabling comprehensive monitoring of vehicle performance and driver behavior.

With the ability to store up to 400 days of trip data, the F2 LTE provides long-term visibility for fleet optimization, compliance, and analytics.



F2 LTE Advanced Main Features

- » **Internal 4G modem with optional internal BLE / WiFi**
- » **Supports external Iridium satellite modem**
- » **On-board functions include CAN Bus transceiver and accelerometer.**
- » **Supports multiple driver ID types including magnetic card reader, RFID, and keypad with private/business trip type**
- » **Fuel Level and alerts by CAN Bus, and up to 2 fuel level sensors**
- » **I/O includes 3 RS232 ports and software defined functions for 2 pulse inputs for RPM and odometer, 6 discrete outputs, 2 Analog inputs, and Ignition + 3 discrete inputs**
- » **Fully integrated with EDT's proprietary WorldFleetLog cloud application to generate real-time dashboards and hundreds of reports.**

Technical Specifications

Cellular

Technology	LTE Cat M1/NB2 (BG96): B1/2/3/4/5/8/12/13/18/19/20/26/ 28; EGPRS: 850/900/1800/1900MHz LTE Cat1: EG915N-XX series
EU	B1/3/7/8/20; GSM B3/8
LatA	B2/3/4/5/7/8/28/66; GSM B2/3/5/8

Optional Communications Interfaces

Satellite	External Iridium network satellite modem
WiFi	Internal WiFi / BLE 5.0 modem

GNSS Module

Receiver type	Supports multiple global positioning and navigation systems: GPS, GLONASS, Galileo, BDS and QZSS. The module also supports SBAS (including WAAS, EGNOS, MSAS and GAGAN) and AGNSS functions.
Sensitivity	Tracking & Navigation –166 dBm; Reacquisition –159dBm; Cold start –148 dBm; Hot start –157 dBm
Acquisition	Cold starts: 26 s, Aided start: 2 s, Hot start: 1 s;
Spoofing protection	Built-in
Anti Jamming	Active CW detection and removal
Position Accuracy	1.5 m
Navigation update rate	1 Hz (Default); Max. 10 Hz

On-board Functions

MCU	ST STM32F427VIT6TR (Default)
Flash memory size	32 MB
Accelerometer	Internal 3 axis accelerometer
Buzzer	On board
Protections	Undervoltage Detection; Over voltage protection; Thermal shutdown with auto restart; Overload protection; Short circuit protection; Current limitation

Physical Characteristics, Operating Environment, Power Consumption

Operating temperature	Range: -40°C to +85°C
Operating conditions:	Meets, or exceeds automotive standards for humidity, corrosion, salt mist fog test; salt spray, dust, drip water, and constant humidity under operation tests
Dimensions	110 x 57 x 32 mm (without bracket)
Weight	161 grams (without bracket)
Vehicle Battery Operating Voltages:	12 VDC nominal [9—28 VDC]; 24 VDC capability
Backup Battery Operating Voltage and Capacity:	3.7 VDC rechargeable 2000 mA Lithium Ion-Polymer battery.
Current Consumption from Vehicle Battery: Maximum (GPRS On):	150 mA
Maximum (Backup Battery Charging):	228 mA; Full Power Mode: (GPRS Off): 63 mA; Standby Mode: 1.8 mA

Input/Output F2 LTE Main Unit

Outputs	Output 1/A2D; Output 2/A2D; Output 3/RPM; Output 4/LED output; Output 5/Odometer; Output 6/A2D
Source	Source 12V Ext_1/Disc_In; Source 12V Ext_0/Disc_In
1 Wire	Dallas
RS-232	3 Interfaces: One for device configuration and debug, and the others may for accessories
CANBus	Internal support for J1939 and generic CAN Bus support per specific vehicle model
Fuel level sensors	Supports up to 2 fuel level sensors (Digital, Analog, BLE)

Supported Applications

Vehicle types	Diesel and petrol engine types; Hybrid and electric vehicles
Non-vehicle applications	Generators, tankers, and any other stationary or mobile equipment