



FTM134

Next-generation 4G LTE Cat M1 GPS tracker with flexible inputs and enhanced GNSS accuracy



Anti-theft
solution & SVR



Driver logbook



Cold chain
monitoring



Industrial
machinery

HIGHER GNSS ACCURACY

More precise GNSS with up to 41 visible satellites, enabling considerably higher tracking quality for location-based services

FLEXIBLE PINOUT USAGE

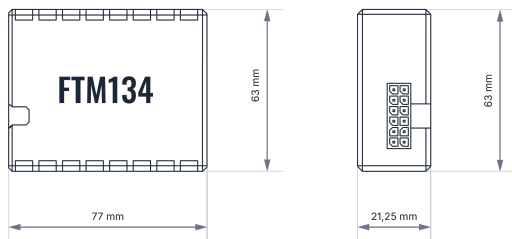
Customisable pinouts let you choose how to use them – set up inputs based on your specific needs, whether for temperature monitoring, ignition detection, or door sensors

EXTENDED PRODUCT USAGE SCENARIOS

Bluetooth® LE-based wireless connection of external devices, including Low Energy beacons and sensors, to monitor temperature, humidity, magnet detection, and movement

LONGER PERFORMANCE, SLOWER DRAINAGE

Optimised sleep modes allow the device to operate on its own for an extended period of time and significantly reduce vehicle battery drainage



Product

Model name	FTM134-Q2AB0
	FTM134-Q3AB0
	FTM134-Q5AB0

Module

Name	FTM134-Q2AB0: Quectel BG95-M1
	FTM134-Q3AB0: Quectel BG95-M3
	FTM134-Q5AB0: Quectel BG95-M6
Technology	LTE CAT M1/NB-IoT/GSM/GPRS/GNSS/BLUETOOTH® LE

GNSS

GNSS	GPS, GLONASS, GALILEO, BEIDOU, QZSS
Receiver	135 tracking/acquisition channels
Tracking sensitivity	-165 dBm
Position Accuracy	< 1.5 m CEP
Velocity Accuracy	< 0.1 m/s (within +/- 15% error)
Hot start	< 1s
Warm start	< 25s

Cellular

Technology	LTE CAT M1/NB-IoT/GSM
2G bands	FTM134-Q3AB0: GSM: B2/B3/B5/B8
4G LTE bands	FTM134-Q2AB0: LTE-FDD (CAT M1): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85
	FTM134-Q3AB0: LTE-FDD (CAT M1): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85 LTE-FDD (CAT NB2): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85
	FTM134-Q5AB0: LTE-FDD (CAT M1): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B85 LTE-FDD (CAT NB2): B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B28/B66/B71/B85
Data transfer	FTM134-Q2AB0: LTE FDD (CAT M1): Max. 588Kbps (DL)/Max.1119Kbps (UL)
	FTM134-Q3AB0: LTE FDD (CAT M1): Max. 588Kbps (DL)/Max.1119Kbps (UL) LTE FDD (CAT NB2): Max. 127Kbps (DL)/Max.158.5Kbps (UL) GSM (GPRS): Max. 107Kbps (DL)/Max. 85.6Kbps (UL)
	FTM134-Q5AB0: LTE FDD (CAT M1): Max. 588Kbps (DL)/Max.1119Kbps (UL) LTE FDD (CAT NB2): Max. 127Kbps (DL)/Max.158.5Kbps (UL)
Transmit power	FTM134-Q2AB0: Class 5 for LTE FDD: 21±1.7/-3dBm
	FTM134-Q3AB0: Class 5 for LTE FDD: 21±1.7/-3dBm Class 4 for GSM850/900: 33±2dBm Class 1 for GSM1800/1900: 30±2dBm
	FTM134-Q5AB0: Class 3 for LTE FDD: 23±2.7dBm
Data support	SMS (TEXT, PDU), Network protocols (TCP, UDP)
Data codec	
Codec support	Codec 8 Extended
Power	
Input voltage range	8-32 V DC
Internal Back-up battery	320mAh Li-Ion battery, 3.7V (1.184 Wh)
Internal fuse	3A, 125V
Power consumption	At 12V < 25 mA (nominal with no load) At 12V < 0.25A Max (with full Load/Peak)

Bluetooth® Technology

Specification	5.4 + LE
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Physical specification

Dimensions	77 x 63 x 21.25 mm (L x W x H)
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Weight	73.7g
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Operating environment

Operating temperature (without battery)	-30 °C to +85 °C
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Storage temperature (without battery)	-30 °C to +85 °C
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Operating temperature (with battery)	-20 °C to +60 °C
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Storage temperature (with battery)	-20 °C to +60 °C
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Operating humidity	65 ± 20% non-condensing
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Ingress Protection Rating	IP41
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Battery charge temperature	0 °C to +45 °C
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Battery discharge temperature	-20 °C to +60 °C
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Battery storage temperature	-10 °C to +50 °C for 1 month -10 °C to +35 °C for 3 months 0 °C to +30 °C for 12 months
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Interface

Digital Inputs	4
Negative Inputs	1
Digital Outputs	3
Analog Inputs	4
1-Wire	1
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CAN	Pinouts are software-defined, configurable pins that can be selected based on the user scenario. For more information, refer to the FTM134 pinouts section.
GNSS antenna	Internal High Gain
Cellular antenna	Internal High Gain
USB	USB 2.0 USB Type-C
LED indication	2 status LED lights
SIM	Nano-SIM
Memory	128MB internal flash memory

Features

Sensors	Accelerometer
Scenarios	Eco Driving, Over Speeding, Idling Detection, Immobilizer, Unplug Detection, Jamming Detection, Crash Detection, Dallas Sensor Support, Towing Detection
Sleep modes	Online Deep Sleep, Deep Sleep, Power Off Sleep
Configuration and firmware update	FOTA WEB, Telematics Configuration Tool (TCT)
SMS	Configuration, DOUT control, Debug
GPRS commands	Configuration, DOUT control, Debug
Time Synchronization	GNSS, NTP, NITZ
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage

Certification & approvals

Regulatory	In progress
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