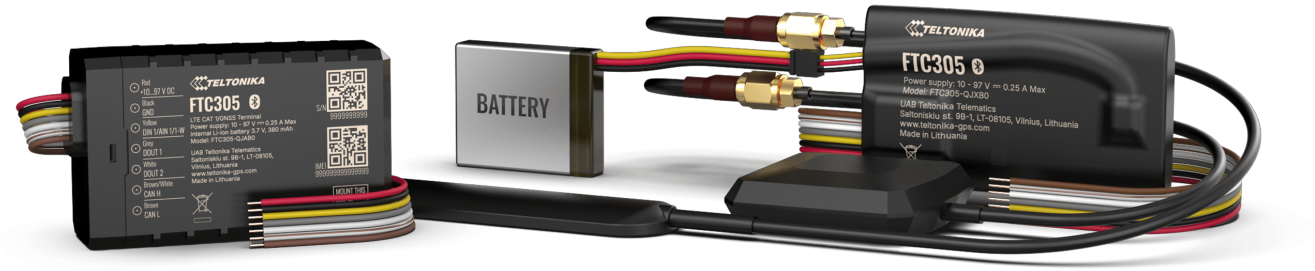
FTC305

Compact 4G LTE Cat 1 e-mobility tracker with CAN data reading and flexible installation options



2-wheeler & 3-wheeler monitoring

Industrial machinery

City utility services

Recreational vehicle monitoring

CAN DATA FOR E-MOBILITY EFFICIENCY

Get crucial CAN parameters and create a custom parameter database to enhance the operational efficiency of your e-mobility fleet

PERFECT FOR HIGH-VOLTAGE TRANSPORT AND MACHINERY

Solid 10-97 V power supply allows device integration in e-bikes, forklifts, shuttle cars, utility machinery, and other electric equipment

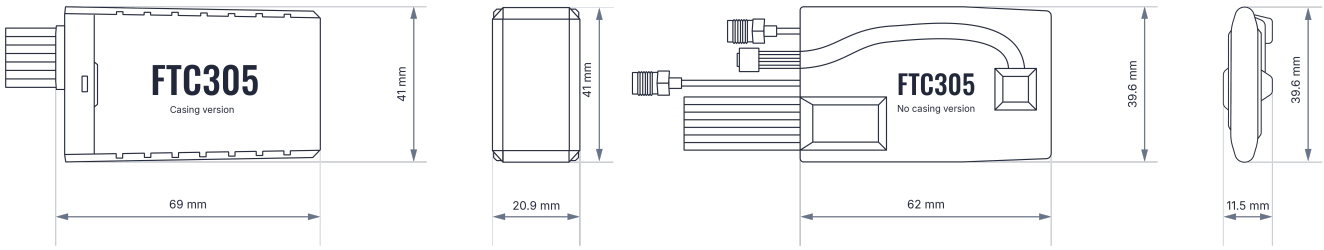
PROTECTION AGAINST DUST AND WATER

Robust yet small IP67-rated casing provides trusted protection against dust and resistance to water

TAILORED FOR FACTORY INSTALLATION

Unique no-casing version of FTC305 with external antenna and larger battery capacity for mounting inside e-bike and e-bicycle frames

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Product	
Model name	**FTC305-QJAB0** **FTC305-QKAB0** **FTC305-QJXB0** **FTC305-QKXB0**
Module	
Name	**FTC305-QJAB0:** Quectel EG915U-EU with AG3335, internal antennas, casing version **FTC305-QKAB0**: Quectel EG915U-LA with AG3335, internal antennas, casing version **FTC305-QJXB0**: Quectel EG915U-EU with AG3335, external antennas, external battery, no casing version **FTC305-QKXB0**: Quectel EG915U-LA with AG3335, external antennas, external battery, no casing version
Technology	LTE CAT 1/GSM/GPRS/GNSS/BLUETOOTH® LE
GNSS	
GNSS	GPS, GLONASS, GALILEO, BEIDOU
Receiver	L1: 75 channel
Tracking sensitivity	-165 dBM
Position Accuracy	< 1.8 m CEP
Velocity Accuracy	< 0.1 m/s (within +/- 15% error)
Hot start	< 1 s
Warm start	< 25 s
Cold start	< 35 s

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Cellular	
Technology	LTE CAT 1/GSM
2G bands	GSM: B2/B3/B5/B8
4G LTE bands	**FTC305-QJAB0**: LTE FDD (EG915U-EU): B1/B3/B5/B7/B8/B20/B28 **FTC305-QJXB0**: LTE FDD (EG915U-EU): B1/B3/B5/B7/B8/B20/B28 **FTC305-QKAB0**: LTE FDD (EG915U-LA): B2/B3/B4/B5/B7/B8/B28/B66 **FTC305-QKXB0**: LTE FDD (EG915U-LA): B2/B3/B4/B5/B7/B8/B28/B66
Data transfer	LTE FDD (CAT 1): Max. 10 Mbps (DL) / Max. 5 Mbps (UL) GSM (GPRS): Max. 85.6 Kbps (DL) / Max. 85.6 Kbps (UL)
Transmit power	Class 4 for GSM900: 33 dBm ± 2 dB Class 1 for DCS1800: 30 dBm ± 2 dB Class 3 for LTE-FDD: 23 dBm ± 2 dB
Data support	SMS (TEXT, PDU), Network protocols (TCP, UDP)

Power	
Input voltage range	10 - 97 V DC
Internal Back-up battery	**Casing version**: 380 mAh Li-ion battery 3.7 V (1.41 Wh) **No casing version**: 1200 mAh Li-ion battery 3.7 V (4.44 Wh) (External)
Internal fuse	3 A, 125V
Power consumption	At 12V < 40 mA (Nominal with no load) At 12V < 0.25 A Max (with full Load/Peak)

Bluetooth® Technology	
Specification	5.3 + LE* EYE sensors and EYE beacons support

Physical specification	
Dimensions	**Casing version**: 69 x 41 x 20.9 mm (L x W x H) **No casing version**: 62 x 39.6 x 11.5 mm (L x W x H)
Weight	**Casing version**: 76.8 g **No casing version (with accessories)**: 126.1 g

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Operating environment	
Operating temperature	-30 °C to +85 °C
Storage temperature	-30 °C to +85 °C
Operating humidity	65 ± 20% non-condensing
Ingress Protection Rating	**Casing version**: IP67 **No casing version**: N/A
Battery charge temperature	0 °C to +45 °C
Battery discharge temperature	-20 °C to +60 °C
Battery storage conditions	**Casing version**: -10 °C to +25 °C for 3 or more months **No casing version**: -20 °C to +45 °C for 3 or more months

Interface	
Digital Inputs	1
Digital Outputs	2
Analog Inputs	1
1-Wire	1
CAN	1
GNSS antenna	**Casing version**: Internal High Gain **No casing version**: External (SMA female connector)
Cellular antenna	**Casing version**: Internal High Gain **No casing version**: External (RP SMA female connector)
USB	2.0 USB Type-C
LED indication	2 status LED lights
SIM	Nano-SIM
Memory	128MB internal flash memory

Data codec	
Codec support	Codec 8 Extended

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Features

Sensors	Accelerometer
Scenarios	Green Driving, Over Speeding detection, Jamming detection, Unplug detection, Crash detection, Manual CAN data reading, Manual CAN commands
Sleep modes	Online sleep, Deep sleep, Power off sleep
Configuration and firmware update	FOTA WEB, Telematics Configuration Tool (TCT)
Time Synchronization	GNSS, NITZ, NTP
Ignition detection	Digital Input 1, Accelerometer, External Power Voltage, Manual CAN

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