



## IP68-rated and “roadworthy” micro-tracker

Available in 2G, 3G and LTE, the MT-40 Series of rugged micro-tracker is especially designed to match environmental, mechanical and electrical requirements of the vehicle tracking market.



### GPS GLONASS

GPS and GLONASS improves location accuracy in challenging urban environment and reduces time to first fix.

### Indestructible power section



Roadworthy 9VDC ~ 60VDC  
ISO 7637-2:2011 (TÜV)  
ISO 21848:2005 (QuieTeK)  
Ideal for electric and recreational vehicles



Electrical Vehicle



### IP68 Waterproof Dustproof

Waterproof, immersion up to 1.2m during 60min, and completely rustproof, it is the perfect tracking device for extreme conditions and activities

### Dual SIM



Host 2 SIM cards and switch between carrier



Motorbike / Vehicle  
Tracking



Bike  
&  
Car Sharing

# MT-40 Series specifications

## HARDWARE

<b>Casing</b>	Automotive graded, UV resistant, non-flammable fibreglass-reinforced IP68 certified casing
<b>Dimensions</b>	70 x 52.5 x 20.6 mm
<b>Weight</b>	100g
<b>Wire harness</b>	1m
<b>Operating temperature range</b>	Operating: -30°C ~ 70°C Battery discharging temp.: -20°C ~ 60°C Battery charging: 0°C ~ 45°C

## TRACKING

<b>GNSS</b>	72-channel u-blox8 GNSS engine GPS/QZSS L1 C/A, GLONASS L1 FDMA, SBAS: WAAS, EGNOS, MSAS
<b>A-GPS</b>	✓
<b>Protocols</b>	NMEA
<b>Accuracy</b>	Position: 2.5 m GPS / 4.0 m GLONASS
<b>Acquisition</b>	Cold Start: 30 s GPS / 33 s GLONASS Tracking: -164 dBm GPS / -163 dBm GLONASS
<b>Sensitivity</b>	Cold starts: -147 dBm (GPS) / -145 dBm (GLONASS)
<b>Limits</b>	Velocity: 500m/s (972 knots) Altitude: 50,000m Update rate: 1Hz

## INTERFACES

<b>Device generated alerts</b>	Wired or virtual ignition ON/OFF Direction change Speed Mileage Low battery - battery disconnect HeartBeat / Power-up Tow
<b>Geofencing</b>	Programmable alert for usage outside specified time / area Device generated rectangular / polygonal / circular geofences
<b>Engine ignition</b>	Disable / Enable
<b>Configurable alert</b>	Overspeed, geofence, ignition
<b>Software</b>	Firmware upgrade over the air
<b>Device diagnostic</b>	Status generated
<b>Power saving mode</b>	✓
<b>Odometer</b>	Initialise / Set
<b>I/O read</b>	Open / Close - threshold alert set
<b>Cloud Services</b>	Embedded profile to connect to D2SPHERE™ remote management services

## POWER

<b>Main Source</b>	Roadworthy 9VDC ~ 60VDC ISO 7637-2:2011 (TÜV) ISO 21848:2005 (Quietek)
<b>Alternate source</b>	Li-on 3.15Wh backup battery
<b>Average power consumption</b>	3G normal operation: 1.2W

PRODUCT NAME	TERRITORIES / OPERATORS	CELLULAR TYPE	BANDS	FALL-BACK MODE	BANDS	PLANNED APPROVALS AND CERTIFICATIONS			AVAILABLE IN...	ORDER CODE
						REGULATORY	INDUSTRY	OPERATOR		
MT-44	EMEA	LTE cat. 1	3/8/20	2G	3/8	CE Marking E-Mark	GCF			MT-44#38K#38
MT-41	EMEA, Asia	2G	3/8			CE Marking	GCF		Q1 '17	MT-41#02
MT-45	EMEA, Asia	3G (*)	1/8	2G	3/8	CE Marking e-mark	GCF			MT-45#02
MT-44	Verizon Wireless	LTE cat. 1	4/13			FCC		Verizon Wireless		MT-44#4D
MT-44	AT&T Wireless and T-Mobile USA	LTE cat. 1	2/4/12			FCC	PTCRB	AT&T Wireless T-Mobile USA		MT-44#24C
MT-45	The Americas excluding Brazil	3G (*)	2/5	2G	2/5	FCC	PTCRB			MT-45#00
MT-48	- Telstra and Spark - Variously suited to operators in Taiwan (please contact us)	LTE cat. 4	3/7/28			RCM NCC		Telstra		MT-48#37S
MT-48	NTT docomo	LTE cat. 4	1/19/21			JRF and JPA		NTT docomo		MT-48#13L
MT-48	KDDI	LTE cat. 4	1/11/18			JRF and JPA		KDDI		MT-48#1BI
MT-48	- Korea, Thailand and Brazil - Variously suited to operators in Hong Kong and the Philippines (please contact us)	LTE cat. 4	1/3/5/7			KCC ANATEL		SK telecom, kt and LG U+		MT-48#1357
MT-41	World	2G	2/3/5/8			CE Marking	GCF			MT-41
MT-45	World	3G (*)	1/2/5/8	2G	2/3/5/8	CE Marking	GCF		Q1 '17	MT-45

Please consult us regarding the models in grey

(\*) 7.2 Mbps downlink; 5.76 Mbps uplink

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