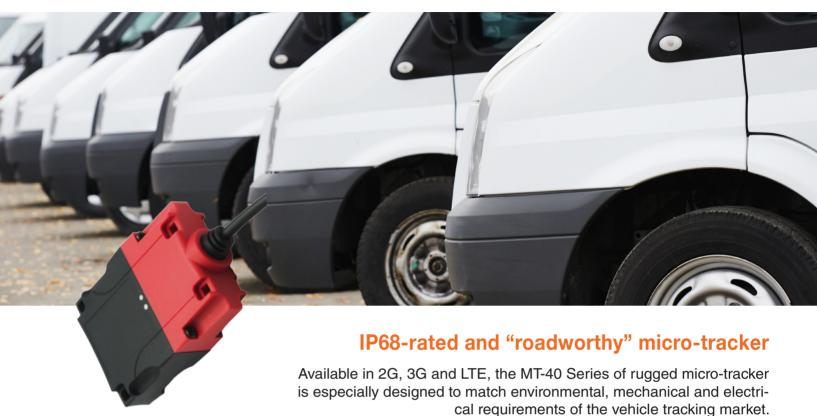
# MT-40 SERIES







# GPS GLONASS

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



# 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

# Indestructible power section



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

## **Dual SIM**



Host 2 SIM cards and switch bertween carrrier









**D2SPHERE™** device management services let you monitor, diagnose, control and update your Maestro devices. Information such as signal strength, geographic location, battery state and temperature, as well as device firmware and software versions can be remotely monitored, stored and presented to help you maintain connectivity, manage quality of service and prevent downtime.

## **MT-40 Series specifications**

## **HARDWARE**

Casing Automotive graded, UV resistant, non-flammable

fibreglass-reinforced IP68 certified casing

Dimensions 70 x 52.5 x 20.6 mm

Weight 100g Wire harness 1m

Operating Operating: -30°C ~ 70°C

Battery discharging temp.: -20°C ~ 60°C temperature

range Battery charging: 0°C ~ 45°C

## **TRACKING**

GNSS 72-channel u-blox8 GNSS engine

GPS/QZSS L1 C/A, GLONASS L1 FDMA,

SBAS: WAAS, EGNOS, MSAS

A-GPS ✓

**Protocols** NMEA

Accuracy Position: 2.5 m GPS / 4.0 m GLONASS

Acquisition Cold Start: 30 s GPS / 33 s GLONASS

Tracking: -164 dBm GPS / -163 dBm GLONASS

Sensitivity Cold starts: -147 dBm (GPS) / -145 dBm (GLO-

NASS)

Velocity: 500m/s (972 knots) Limits

Altitude: 50.000m Update rate: 1Hz

## **INTERFACES**

Device generated Wired or virtual ignition ON/OFF

alerts Direction change

Speed Mileage

Low battery - battery disconnect

HeartBeat / Power-up

Geofencing Programmable alert for usage outside

specified time / area

Device generated rectangular / polygonal

/ circular geofences

Engine ignition Disable / Enable

Configurable alert Overspeed, geofence, ignition

> Software Firmware upgrade over the air

Device diagnostic Status generated

Power saving mode

Odometer Initialise / Set

Open / Close - thresold alert set I/O read

Cloud Services Embedded profille to connect to

 $\mathsf{D2S}_{\mathsf{PHERE}^{\mathsf{TM}}}\ \mathsf{remote}\ \mathsf{management}\ \mathsf{services}$ 

#### **POWER**

Main Source Roadworthy 9VDC ~ 60VDC

ISO 7637-2:2011 (TÜV) ISO 21848:2005 (QuieTeK)

Alternate source Li-on 3.15Wh backup battery 3G normal operation: 1.2W

Average power consumption

PRODUCT NAME	Territories / Operators	CELLULAR TYPE	Bands	FALL- BACK MODE	BANDS	PLANNED APPROVALS AND CERTIFICATIONS			AVAILABLE	Order
						REGULATORY	INDUSTRY	Operator	IN	CODE
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#1JL
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
								(ii) = 0.44		

Please consult us regarding the models in grey

(\*) 7.2 Mbps downlink; 5.76 Mbps uplink