Trace5 Global
Datasheet

Ruptela
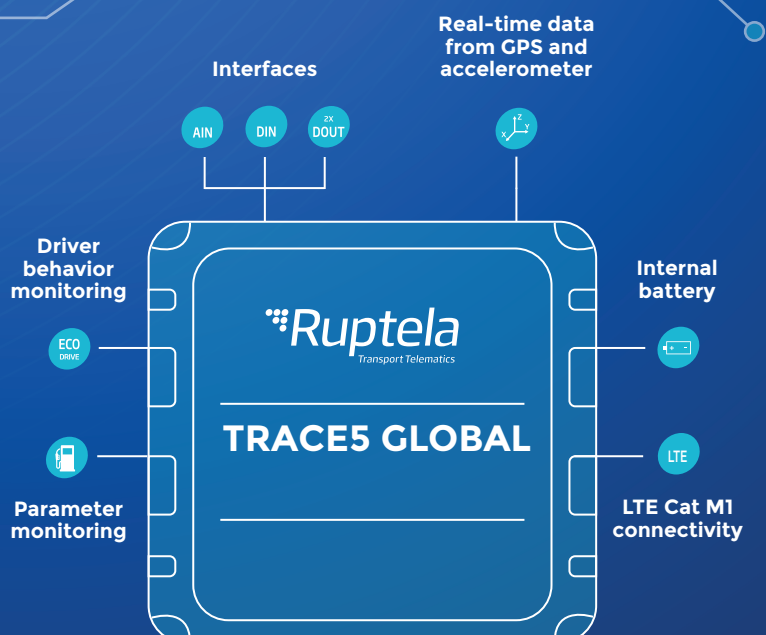Transport Telematics

- **Trace5 Global** is a compact GPS tracker with all essential features for vehicle tracking and fleet management.

- This **GPS tracker** uses **LTE CAT M1 (4G)** connectivity and a premium GPS module from *Ublox*.

Applications

- ✓ Track & Trace
- ✓ Safety & Security
- ✓ Green fleet
- ✓ Delivery
- ✓ Service fleets
- ✓ Vehicle leasing and financing
- ✓ Car rental

Interfaces

AIN   DIN   2x DOUT

Real-time data from GPS and accelerometer

Driver behavior monitoring

ECO DRIVE

Ruptela
Transport Telematics

TRACE5 GLOBAL

Internal battery

Parameter monitoring

LTE

LTE Cat M1 connectivity

Detailed specifications

Environmental

Temperature			
	• Operating:	-22 to 140 °F	(-30 to +60 °C)
	• Storage:	-40 to 149 °F	(-40 to +65 °C)
	• Battery charging:	32 to 113 °F	(0 to +45 °C)
	• Battery discharging:	-4 to 140 °F	(-20 to +60 °C)
	• Battery storage:	-4 to 140 °F	(-20 to +60 °C)

Relative humidity • 5% to 95% Non-condensing

Electrical

Power supply range • 8 – 30 V DC

Internal battery • LiPo 3.7 V 190 mAh

Protections
- Battery short circuit protection
- Reverse polarity protection
- Electrostatic discharge protection on USB
- Charging protection

Power consumption @ 12 V DC

Operating
(internal battery
fully charged)
- Idle mode: 33 mA
- Active mode (peak):   76 mA
- Sleep mode (lowest):   5 mA

Connectivity

LTE Cat M1		
	• Modem:	Quectel BG96
	• Antenna:	Internal
	• Frequency Bands @ 2G (GSM):	850/900/1800/1900 MHz
	• Bands @ 4G (LTE Cat M1):	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B28/B39
	• Bands @ NB-IoT:	B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B28

GNSS		
	• Module:	U-blox EVA-M8M
	• Antenna:	Internal
	• Positioning systems:	GPS, GLONASS, Galileo
	• Augmentation systems:	QZSS, SBAS (WAAS, GAGAN, EGNOS, MSAS)
	• Aided start services:	AssistNow Online (A-GPS)
	• Tracking sensitivity:	-154 to -164 dBm
	• Reacquisition sensitivity:	-152 to -160 dBm
	• Cold start duration:	< 30 s
	• Aided start duration:	As low as 3 s

Interfaces

Digital inputs	• Available inputs:	1
	• Voltage range:	0 - 30 V DC
	• Voltage threshold:	4 V DC
	• Voltage threshold when inverted:	250 mV DC
Analog inputs	• Available inputs:	1
	• Voltage range:	0 - 30 V DC
	• Resolution:	12 bit
Digital outputs	• Available outputs:	2
	• Maximum voltage:	32 V DC
	• Maximum current:	1 A
User interfaces	• Mini USB interface	
	• RG indication LED	

Features

Internal storage	• 8 MB
SIM card	• Micro SIM
Device management	• Monitor, manage, upgrade firmware, configure and troubleshoot devices remotely
Accelerometer	• Built-in 3-axis (auto-calibrating, impact detection, motion sensing, tilt detection, g-force up to 4 g)

Physical Properties

Dimensions	• 2.54 x 2.40 x 0.87" (65 x 61 x 22 mm)
Weight	• 2.47 oz (70 g)
Housing	• Plastic

Ordering information

TRACE5-LTM-GL	• Trace5 Global with global LTE Cat M1 network. This model is for samples only and has to be ordered by a special request.

Contact information: