

Optimized for:	VEHICLE TRACKING					PERSONAL TRACKING			OBJECT TRACKING						
	premium	high-end	mid-range	budget	budget	mid-range	mid-range	budget	high-end	mid-range	mid-range	mid-range	budget	budget	budget
✓ standard															
✓ optional									OEM		OEM	OEM	OEM	OEM	
- not available									OEM		OEM	OEM	OEM	OEM	
	TM186/R9A10	TM201/R9U10	TM9953/R9A10	TM178/R9H7	TM203/R9F4	TM189/R9P4	TM179/R9Q1	TM206/R9O5	TM202/R9C7	TM200/P1A5	TM202/R9C5	TM230/R9M1	TM202/R9C5	TM900/N1C1	TM901/N1C2

Mechanical specification

Dimensions: (l) x (w) x (h) mm	86x63.7	86x63.7	86x63.7	91x40x9	87x22x7	71x40x9	71x40x9	56x37x16	46x21x6.5	50x26x9.8	46x21x6.5	29.7x20	46x21x6.5	49.6x15x6.5	53x15x7.5
Weight: gram	110	110	110	36 inc battery	15.5	33	33 inc battery	39	7	17	7	3.5	7	3.4	3

GSM cellular network

2G	✓	-	✓	✓	✓	-	✓	✓	✓	-	✓	✓	✓	-	-
3G	✓	✓	✓	✓	-	✓	-	-	-	-	✓	-	✓	-	-

Antenna type / GSM reception

Internal (good GSM reception)	-	-	-	-	★★★★★	-	-	★★★★★	★★★★★	-	★★★★★	★★★★★	★★★★★	-	-
External (optimal GSM reception)	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	-	★★★★★	-	★★★★★	-	-

GNSS coverage

GPS	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓
GPS + Glonass	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	-	✓	✓	✓

Antenna type / GPS reception

Internal (good GNSS reception)	-	-	-	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★	-	★★★★★	★★★★★	★★★★★	★★★★★	★★★★★
External (optimal GNSS reception)	★★★★★	★★★★★	★★★★★	-	-	-	-	-	-	-	-	-	-	-	-

RF-communication

RF-short range	✓	-	-	-	✓	-	-	✓	✓	-	-	-	-	✓	✓
RF-long range	✓	-	-	✓	✓	✓	✓	-	✓	✓	✓	-	-	✓	✓
Wi-Fi	-	-	-	✓	✓	-	-	-	-	-	-	-	-	-	-
ANT/ANT+	✓	-	-	✓	-	-	-	-	✓	-	-	-	-	✓	✓
BLE	✓	-	-	✓	-	-	-	-	✓	✓	-	-	-	✓	✓
LoRa®	-	-	-	✓	-	-	-	-	✓	✓	-	-	-	✓	✓
iBeacon™	✓	-	-	✓	-	-	-	-	✓	-	-	-	-	✓	✓

Sensors

Acceleration	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Temperature	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓
Humidity	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	✓
Compass/magneto	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	✓
Audio (Microphone)	-	-	-	-	-	-	-	-	✓	-	✓	-	-	-	-
Barometer/altitude	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	✓

External Sensor support

Garmin	✓	✓	✓	✓	✓	-	-	-	-	-	-	-	-	-	-
Iridium modem	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
Vibration motor	-	-	-	-	-	✓	✓	-	-	-	-	-	-	-	✓
Inductive charging option	-	-	-	-	-	✓	✓	-	-	-	-	-	-	✓	-
Solar powering option	-	-	-	-	-	✓	✓	-	-	-	-	✓	-	✓	✓
Temperature sensor	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	-	✓	✓	✓
Audio (speaker)	-	-	-	-	-	-	-	-	✓	-	✓	-	-	✓	✓
Audio (buzzer)	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	✓

I/O-connectivity

I/O's	5/4	5/4	3/2	3	3	2	2	2+1	2+1	-	2+1	-	2+1	1+1	1+1
CAN / OBD-II	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
RS232	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
RS485	✓	✓	-	-	-	-	-	-	-	-	-	-	-	-	-
Serial 3V	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	✓
1-Wire	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	-	✓	-	-
iButton™	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	-	✓	-	-