

			
Btracking Part No.	BTL3030	BTL3040	BTL3240
Cell Networks			
LTE	B2(1900)/B4(AWS1700)/B12(700)	900 (B2)/AWS 1700 (B4)/850 (B5)/700 (B12)	Cat 4: 900 (B2)/AWS 1700 (B4)/850 (B5)/700 (B12)
HSPA/UMTS	n/a	850 (V1)/1900 (II)	850 (V1)/1900 (II)
Satellite Location (GNSS)			
Constellation Support	Hybrid GPS, GLONASS, SBAS engine (WAAS, EGNOS,	Hybrid GPS, GLONASS, SBAS engine (WAAS, EGNOS,	Hybrid GPS, GLONASS, SBAS engine (WAAS, EGNOS,
Channels	55 Channel	55 Channel	55 Channel
Tracking Sensitivity	-167 dBm	-167 dBm	-167 dBm
Acquisition Sensitivity			
Cold Start	-148dBm	-148dBm	-148dBm
Hot Start	-157 dBm	-157 dBm	-157 dBm
Location Accuracy	2.0m CEP Open Sky (SBAS 24 hours static)	2.0m CEP Open Sky (SBAS 24 hours static)	2.0m CEP Open Sky (SBAS 24 hours static)
Location Update Rate	Up to 4 Hz	Up to 4 Hz	Up to 4 Hz
Anti-Jamming	Y	Y	Y
AGPS Location assistance capable	Y	Y	Y
Comprehensive I/O			
OBD-II Interface	J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230 KWP	J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230 KWP	J1850 PWM, J1850 VPW, ISO-9141-2, ISO-14230 KWP
Serial Port	2000, ISO-15765 CAN, SW-CAN	2000, ISO-15765 CAN, SW-CAN	2000, ISO-15765 CAN, SW-CAN
Bluetooth	USB serial interface	USB serial interface	USB serial interface
Status LEDs	Bluetooth Low Energy (BLE)	Bluetooth Low Energy (BLE)	Bluetooth Low Energy (BLE)
Integrated Buzzer	3 (OBD, cellular, GPS)	Programmable dual color (OBD, cellular, GPS)	Programmable dual color (OBD, cellular, GPS)
Gyroscope	Programmable audible alert	Programmable audible alert	Programmable audible alert
Accelerometer	N/A	Built in triple-axis gyroscope	Built in triple-axis gyroscope
	Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)	Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)	Built in, triple-axis (driver behavior, impact detection, motion sensing, tilt detection)
Certifications			
FCC	Y	Y	Y
CE	Y	N	N
IC	Y	Y	Y
PTCRB	Y	Y	Y
ROHS	Y	N	N
Electrical			
Operating Voltage	12/24 VDC Vehicle Systems 9-30 VDC (start-up, operating) 7-32 VDC (momentary)	12/24 VDC Vehicle Systems 9-30 VDC (start-up, operating) 7-32 VDC (momentary)	12/24 VDC Vehicle Systems 9-30 VDC (start-up, operating) 7-32 VDC (momentary)
Power Consumption	Typical 2mA @ 12 V (deep sleep) Typical 40mA @ 12 V (active tracking w/ GPS and cell enabled)	Typical 1mA @ 12 V (deep sleep) Typical 15mA @ 12 V (sleep on active network) Typical 70mA @ 12 V (active tracking w/ GPS and cell enabled)	Typical 500uA @ 12 V (deep sleep) Typical 2mA @ 12 V (sleep on active network) Typical 70mA @ 12 V (active tracking w/ GPS and cell enabled)
Battery Pack			
Battery Capacity	180 mAH	180 mAH	180 mAH
Battery Technology	Lithium-Ion	Lithium-Ion	Lithium-Ion
Charging Temperature	0° to +45° C	0° to +45° C	0° to +45° C
Environmental			
Temperature	-30° to +60° C (connected to primary power) -20° to +60° C (operating on battery) -20° to +25° C ≤ 6 months (long term storage with battery)	-30° to +60° C (connected to primary power) -10° to +60° C (operating on battery) -20° to +25° C ≤ 6 months (long term storage with battery)	-30° to +60° C (connected to primary power) -20° to +60° C (operating on battery) -20° to +25° C ≤ 6 months (long term storage with battery)
Humidity	95% RH @ 50° C non-condensing	95% RH @ 50° C non-condensing	95% RH @ 50° C non-condensing
Shock and Vibration	U.S. Military Standards 202G, 810F; SAEJ1455	U.S. Military Standards 202G, 810F; SAEJ1455	U.S. Military Standards 202G, 810F; SAEJ1455
ESD	IEC 61000-4-2 (4KV Test)	IEC 61000-4-2 (4KV Test)	IEC 61000-4-2 (4KV Test)
Ingress Protection Rating	N/A	N/A	N/A
Physical			
Dimensions	1.8 x 2.6 x 1.1" 46 x 67 x 28 mm	1.88 x 2.50 x 1.14" 48 x 63.25 x 29 mm	1.88 x 2.50 x 1.14" 48 x 63.25 x 29 mm
Weight	1.75 oz (50 g)	2.54 oz (72 g)	2.54 oz (72 g)
OBD Data Extraction			
Extraction	Transmission of standard OBD-II codes, plus manufacturer specific codes which are made available	Transmission of standard OBD-II codes, plus manufacturer specific codes which are made available	Transmission of standard OBD-II codes, plus manufacturer specific codes which are made available
Connectors/SIM Access			
Power, I/O	N/A	N/A	N/A
GPS Antenna	Internal	Internal	Internal
Cellular Antenna	Internal	Internal	Internal
SIM Access	Internal (2FF SIM)	Internal (4FF SIM)	Internal (4FF SIM)
Product Options			
	OBD-II extender cable	OBD-II extender cable	OBD-II extender cable



Additional Details Summary			
Hardware			
GPS, high sensitivity	Y	Y	Y
Processor	32 bit	32 bit	32 bit
Serial Ports	1	1	1
ECM Data (Hvy Duty J1939/J1708)	N	N	N
ECM Data (Light Duty OBDII)	Y	Y	Y
Inputs (digital and includes ignition)	N	N	N
A/D Inputs	N	N	N
Input bias control	N	N	N
Outputs	N	N	N
iButton / Driver ID (1 bit protocol)	via BT Key Fob	via BT Key Fob	via BT Key Fob
Temp sensor - (1 bit protocol)	N	N	N
Vehicle Power	12 & 24v	12 & 24v	12 & 24v
Non-volatile Memory	Y	Y	Y
Serial Data Support	Y	Y	Y
Programmable 3 Axis Accelerometer	Y	Y	Y
Ext Wiring Harness Options	N	N	N
Internal Antenna Option	Y	Y	Y
External Antenna Option	N	N	N
Water resistant enclosure	N	N	N
Variable Sleep Modes	Y	Y	Y
Communication Options			
SMS	Y	Y	Y
GPRS	Y	Y	Y
HSDPA/HSUPA	Y	Y	Y
LTE	Y	Y	Y
WiFi	N	N	Y
Bluetooth	Y	Y	Y
Satellite	N	N	N
Firmware			
Buffered Messages	2000	2000	2000
Peripheral Support			
User Msgs(MDT, Txt, SMS,etc)	Y	Y	Y
Garmin Messaging	Y	Y	Y
NMEA (via serial)	Y	Y	Y
Dial-Up Netowrking	Y	Y	Y
PEG Features			
PEG Event Lines	1250	1250	1250
Accumulators	128	128	128
Timer timeouts	128	128	128
De-bounce delays (Inputs)	1 per input	1 per input	1 per input
Max Speed Thresholds	4	4	4
Time - Distance reporting	4	4	4
A/D Thresholds	4	4	4
A/D accumulators	Y	Y	Y
Geo-Fence			
Rectangle or radial zone	21	21	21
Radial Zones or Vertices	5400	5400	5400
Radial Zones or Vertices	Y	Y	Y