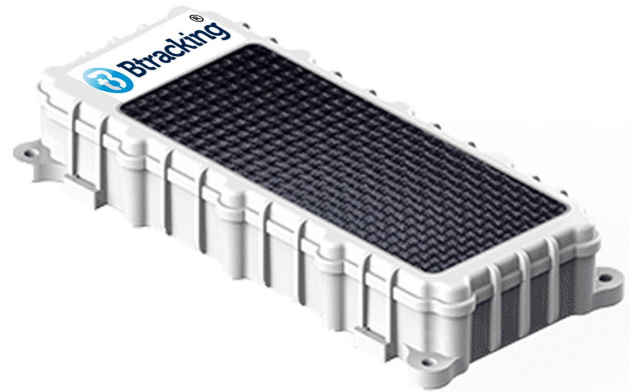


PROFESSIONAL ASSET TRACKER

BS120NA Solar Tracker

LTE Cat-M1 (eMTC) / Cat-NB1 (NB-IoT) and GSM
asset tracking for wide-ranging applications

4G · Solar


Weight	370 g (13.05 oz)	Dimensions	85 × 185 × 31 mm (3.35" × 7.28" × 1.22")
Battery	9600 mAh / 3.6V	Operating Temp	-25°C to +80°C (-13°F to +176°F)
Waterproof	IP67	GNSS Accuracy	< 2 m (< 6.6 ft) CEP
Mounting	Magnet / Screw	Charging	Magnetic USB, 5V 1A

KEY FEATURES

- Compact Size
- Easy Installation
- Waterproof IP67
- Firmware Over the Air
- Solar Powered
- BLE 5.0 Wireless
- Low Battery Alarm
- Removal Alert
- Data Security MD5/AES
- MQTT Support
- Motion Detection (3-axis)
- Light Sensor Alarm

STANDBY TIME

(no solar charging, 2h active tracking/day)

10 min reporting	320 days
5 min reporting	170 days
1 min reporting	68 days

GNSS SPECIFICATIONS

Chipset	Qualcomm Gen 8C GNSS
GNSS System	GPS + Glonass + Galileo + Beidou
Receiver	33 tracking / 99 acquisitions
Cold TTFF	< 29 s
Warm TTFF	< 27 s
Hot TTFF	< 1 s
Sensitivity	Cold -149 / Tracking -163 dBm
Position CEP	< 2 m (< 6.6 ft)

NETWORK / OPERATING BAND

LTE FDD Cat M1	B1/B2/B3/B4/B5/B8/B12/B13/B19/B20/B25/B28 · TDD B39
LTE FDD Cat NB1	B1/B2/B3/B4/B5/B8/B12/B13/B19/B20/B25/B28
GSM/EDGE	850 / 900 / 1800 / 1900 MHz
eMTC DL/UL	300 / 375 Kbps
NB1 DL/UL	32 / 70 Kbps
EDGE DL/UL	296 / 236.8 Kbps
GPRS DL/UL	107 / 85.6 Kbps
Protocol	TCP, UDP, MQTT, SMS
Encryption	MD5 / AES128
Geo-fence	Up to 64 regions

INTERFACES

Charging	4-pin magnetic USB port
Antenna	Internal LTE / GNSS
Indicator LED	Network, GNSS, Battery level
Light Sensor	1 back light sensor
Temp Sensor	1 temperature sensor
BLE 5.0	Yes — full wireless sensor support
Power Switch	1
Solar Panel	Charges tracker battery
FOTA	Yes

CERTIFICATIONS

FCC	IC	CE	RCM	PTCRB	AT&T	US Cellular	Verizon on-going	T-Mobile on-going
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