

AT500 Mini Asset Tracking Device



BLE 4.2



Internal
2200mAh
battery



IP68 waterproof



Qi v1.2 wireless
charging



MFF2
chip SIM



LPWA + GPRS
5-BAND



Magnetic mount



MEMS
accelerometer



FOTA
Firmware update
Over-the-air



Autonomous
operation
6 months



SDK
available



5 year warranty

TECHNICAL SPECIFICATIONS

GSM/GPRS/LPWA Communication

Communications Module:	Quectel BG600L-M3
GSM EGPRS Frequency Bands:	850/900/1800/1900 MHz
LTE Cat M1 Frequency Bands:	B1/B2/B3/B4/B5/B8/B12/B13/B14/B18/B19/B20/B25/B26/B27/B28/B66/B85
Cat NB2 Frequency Bands:	LTE-FDD: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B28/B66/B71/B85
GSM Antenna:	Internal PIFA PCB trace
Data Transfer Modes:	TCP or UDP

GNSS LOCATION

GNSS Support:	GPS, GLONASS & GALILEO
GNSS Antenna:	Internal 15 x 15 x 4mm ceramic patch
GNSS Receiver:	ublox SAM-M8Q
L1 Receiver:	72 channels
Position Accuracy:	2.5m CEP
Receiver Sensitivity:	-165dBm (GPS + GLONASS, tracking & navigation)
TTFB: Cold start	26 sec
Hot start	1 sec

POWER

Charging:	Qi WPC V1.2 compliant wireless charging
Internal Battery:	3.7V, 2200mAh
Battery Life:	up to 120 days with hourly update up to 180 days with daily update

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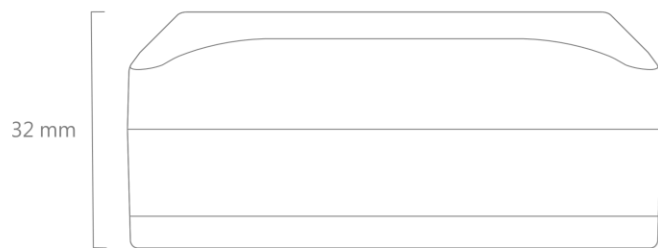
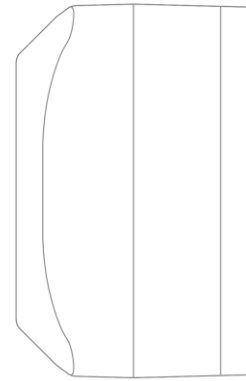
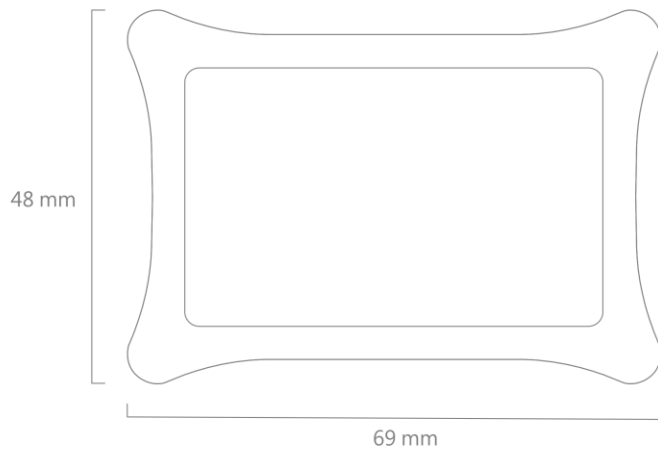
BLE Module:	Silicon Labs BGM123
TX Power:	+3dBm
Sensitivity:	-90dBm
Bluetooth Compliance:	4.2 and earlier

FEATURES

Configuration:	Astra Generic Configuration commands over SMS / TCP
Firmware update:	Supports Astra Firmware Update Over-The-Air (FOTA)
Memory:	1024k on-board non-volatile flash memory
Report storage:	8000 reports
Communication Protocol:	Astra Telematics Modular Protocol X TCP / UDP sockets with optional MQTT authentication / encryption
SIM:	QFN8 / MFF2 format astra "chip SIM" Client supplied SIM is an available option, subject to MoQ and lead-time Please contact us for details

WEIGHT AND DIMENSIONS

135g
69 x 48 x 32 mm



[ACTUAL SIZE]

ENVIRONMENTAL

Temperature:
Operating -20 to +85°C (note: battery charging is suspended at higher temps)
Storage -30 to +85°C

REGULATORY

Product Approvals: TBA

Note: Specifications may change without notice