

astra telematics

AT500 Mini Asset Tracking Device



[ACTUAL SIZE]



Low power consumption



Internal 2200mAh battery



IP68 waterproof



Qi v1.2 wireless charging



microSIM



GSM / GPRS 5-BAND



Magnetic mount



MEMS accelerometer



FOTA
Firmware update
Over-the-air



Autonomous operation
4 months



SDK available



5 year warranty

TECHNICAL SPECIFICATIONS

GSM/GPRS COMMUNICATION

Communications Module:	Quectel M66FA
GSM/GPRS Frequency Bands:	850/900/1800/1900 MHz
GSM Antenna:	Internal PIFA PCB trace
Data Transfer Modes:	GPRS (TCP or UDP)

GNSS LOCATION

GNSS Support:	GPS, GLONASS, GALILEO & BeiDou
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)
TTF:	Cold start Hot start
	26 sec 1 sec

POWER

Charging:	Qi v1.2 compliant wireless charging
Internal Battery:	3.7V, 2200mAh
Battery Life:	xx hours continuous operation xx days operation in daily update mode

FEATURES

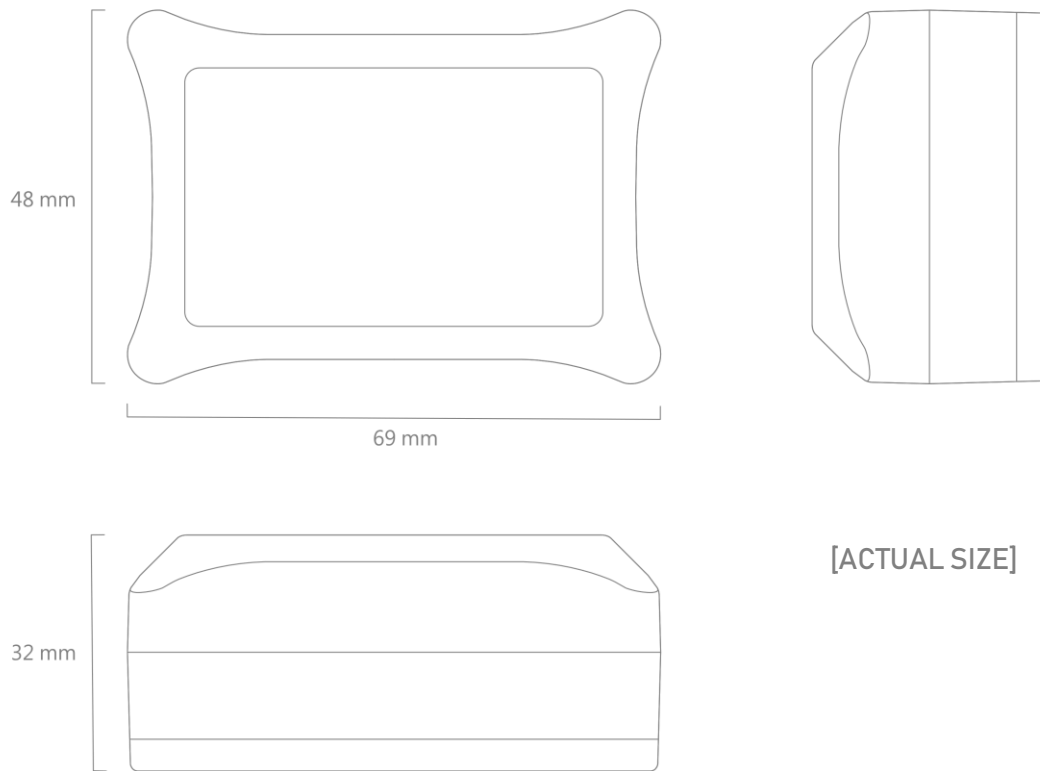
Configuration:	Astra Generic Configuration commands over SMS / TCP
Firmware update:	Supports Astra Firmware Update Over-The-Air (FOTA)
Memory:	1024k on-board non-volatile flash memory
Report storage:	8000 reports
Communication Protocol:	Astra Telematics Modular Protocol X TCP / UDP sockets with optional MQTT authentication / encryption

INTERCONNECT

SIM:	micro SIM (3FF), push-push style
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WEIGHT AND DIMENSIONS

135g
69 x 48 x 32 mm



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

PRELIMINARY – August 2019