Bharat-101

Bharat -101 Technical Specifications

Parameters	
Chipset	MT6260
Memory	8 MB solid state Flash, 100K Erase and Program Cycle,
	10 year data retention, Expandable upto 32 MB
GSM Module	Quad Band GSM 850/900/1800/1900Mhz, DCS GPRS: Class10 Coding Scheme CS1 to CS4.
Supported Constellations	L1 : GPS, GLONASS, Beidu, Galileo L5:IRNSS
GNSS & NAVIC/IRNSS Module	48 Channel GNSS architecture, Positional Accuracy (CEP):1.3m Time to First Fix (GPS@-130dBm)- Host Start :1s- Warm Start 24s- Cold Start :34s, Tracking Sensitivity: -158dBm/ navigation sensitivity -140 2M CEP@-130dbm(Open Sky)
Antennae	Internal
Communication Interface	TCP/IP over GPRS.
Record Storage/buffer	41000 Tracking Records.
CAN/K-line	Support thorough external adapter
Ports	1-USB Device type B, 2 Analog Input , 4 Digital input, 2 Digital output(Open Drain)
	1 RS232 Port
Speed Sensor	GNSS
SIM Interface	Supports both Embedded and Normal 1.8V & 3V (Micro SIM),(Either one of them at a time)
GPRS Packet Data	Class 10 ; Class 8 (Optional), Coding Scheme CS1 to CS4
LED Indication	Process, GSM, GNSS, USB Detection
Connectors	12 Pin connector
Power Supply	Wide DC input voltage range (9V - 32V),

Current Consumption	150mA during transmission, 50mA during tracking and <20mA during Sleep Mode
Internal Battery	850mAh, 6 to 8 Hr backup.
Enclosure	ABS plastic casing with IP67 rating
Temperature	Operating: -25°C to +85°C
	Storage: -25°C to +85°C (Without Battery)
Dimension (mm x mm x mm)	120 x 85 x 34
Weight	170g
FOTA	Firmware upgrade Over The Air available
Motion Censor	3 Axis Accelerometer (Harsh Acceleration, Harsh Braking &Cornering), 3 Axis Gyrometer