



## IP68-RATED ADVANCED CAT-M TELEMATICS DEVICE WITH GNSS

Available in Cat M1 LTE with 2G fallback, the BOLERO43 series of advanced telematics devices with GNSS matches the asset tracking market's environmental, mechanical and electrical requirements. Designed on the robust Lantronix FOX platform, BOLERO43 takes the best features of its predecessor, shrinks it down, and adds groundbreaking enhancements to deliver unparalleled performance in a compact, portable, and waterproof design.



### Trustworthy Rugged Design

Performance in even the harshest environments.

- V0 flame retardant
- Waterproof (IP68 certified)
- Dust proof



### Resilient Power Supply

10.8 VDC ~ 48.0 VDC.

The BOLERO43 telematics device is equipped with a robust and resilient power supply designed to withstand the most challenging environments. Its rugged power supply ensures continuous and reliable operation even in rough terrains, extreme weather conditions, and fluctuating power scenarios.



### Save Money and Ensure the Highest Coverage Available with Dual SIM Function

Hosts two Mini SIMs (aka 2FF) and switches between carriers to ensure continuous nationwide/cross-border coverage across two services, effectively reducing mobile roaming charges.



### Improve Efficiency with Smart Remote Management

Lantronix's advanced telematics operating system offers flexibility for any application. Remote monitoring via the PercepXion platform that allows real-time vehicle environment tracking, analysis, and in-depth reporting.

### Lantronix Software Services

PercepXion - This secure cloud platform provides comprehensive, ready-to-use device life cycle management, application integration and analytics through a single pane of glass.

<https://www.lantronix.com/percepXion/>

### Perfect For:



Electric Vehicle



Bike & Car Sharing



Vehicle Tracking



Rental Vehicle Tracking

### BOLERO43 Highlights

- Pre-configured with PercepXion™ IoT Edge solution platform
- IP68 waterproof, dust proof
- Dual SIM
- Powerful scripting language
- "Indestructible" power supply

## Features and Specifications

## Hardware

Casing	Non-flammable fiberglass-reinforced IP68-certified casing
Dimensions	70 x 52.5 x 20.6 mm without connection cable
Weight	Approx. 118 g
Wire harness	1 m with a (2x4) connector at cable's end
Temperature range	Battery discharging temp.: -10°C ~ +60°C Battery charging: 0°C ~ +45°C
SDRAM	16 Mbit

## Tracking

GNSS	72-channel GNSS engine GPS/QZSS, GLONASS, Galileo, BeiDou SBAS: WAAS, EGNOS, MSAS
A-GNSS	AssistNow Online / offline / autonomos
Protocols	NMEA, PFAL (binary)
Accuracy	Position: 2.5 m (GPS) / 4.0 m (GLONASS)
Acquisition	Cold Start: 30 s (GPS) / 33 s (GLONASS) Tracking: 164 dBm (GPS) / -163 dBm (GLONASS)
Sensitivity	Cold start:-147 dBm (GPS)/-145 dBm (GLONASS)
Limits	Velocity: 500 m/s (972 knots) Altitude: 50,000 m Update rate: 1 Hz

## Mounting

Mounting types	- Double-sided adhesive pad (not included) - Cable ties (not included)
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## Interfaces

SIM interface	2FF SIM 1.8 V / 3.0 V x 2 or factory-fitted MFF SIM x 2
Cellular and GNSS antennas	Internal
Internet	TCP / UDP / SMTP / HTTP
RS-232	V.24 level on 2 wires
I/Os	Two 'versatile', i.e. user-configurable as analogue/digital input or digital output and Ignition sensing
Analogue input	Max. 32 VDC
Digital output	Open collector; 100 mA max.; 32 V dc max.
Digital input	0 - 32 Vdc; User-programmed high and low thresholds
1-wire interface	3.3 VDC for temperature sensor or iButton driver ID
Accelerometer	Built in, $\pm 8g$ triple-axis (moving, standing, harsh braking and acceleration, tilt detection)
LEDs	User-configurable (e.g. Cellular, GNSS, Power ... etc.)
Cloud Services	Lantronix Percepexion™ platform

## Power

Main source 10.8 VDC ~ 48.0 VDC

Alternate source Li-ion 3.15 Wh backup battery

## Firmware Features

- Embedded TCP/IP stack for client-server application
- Support SMS/USSD/TCP/IP/UDP/SMTP/HTTP
- Lantronix protocols: IOP, GSM, AREA, 3DP, BIN
- 40 programmable Timers, Triggers, Counters
- 3000 built-in geofences and 2000 waypoints (rectangular/circular)
- Support primary and backup servers
- GSM/GSM jamming detections
- Multi power-saving modes and wake-up conditions
- Intelligent and flexible configuration settings
- Alert notification rules based on combined events/states
- Drivers Logbook / History / Trip management
- Driver behavior evaluation
- 2 x APN settings for home and roaming
- Lantronix PREMIUM features supported
- Local and OTA firmware update
- Local and OTA device configuration

## Ordering Information

Part Number	Description
B43H002S	Bolero - Europe 4G LTE M & NB1: B3, B8, B20; 2G Fallback Positioning: GNSS & Accelerometer Antenna: Internal Interfaces: 1x RS-232, 2x I/O, 1-Wire, CANbus Battery: Yes
B43H001S	Bolero - North America (AT&T) 4G LTE M & NB1: B13 Positioning: GNSS & Accelerometer Antenna: Internal Interfaces: 1x RS-232, 2x I/O, 1-Wire, CANbus Battery: Yes
B43H207S	BOLERO - Japan 4G LTE M & NB1: B1, B8, B18, B19 Positioning: GNSS & Accelerometer Antenna: Internal Interfaces: 1x RS-232, 2x I/O, 1-Wire, CANbus Battery: Yes