BOLERO43

PERCEPXION

IP68-RATED ADVANCED CAT-M TELEMATICS DEVICE WITH GNSS

Available in Cat M1 LTE with 2G fallback, the BOLERO43 advanced telematics devices with GNSS matches the asset tracking market's environmental, mechanical and electrical requirements. Designed on the robust Lantronix FOX platform, BOLERO43 telematics device 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. Now offered with Percepxion, our secure cloud platform that provides comprehensive device life cycle management, application integration and analytics through a single pane of glass.

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

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BOLERO43

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)

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, ± 8g triple-axis (moving, standing, harsh braking and acceleration, tilt detection)
LEDs	User-configurable (e.g. Cellular, GNSS, Power ... etc.)
Cloud Services	Lantronix Percepxion™ 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	Tracker BOLERO43 - EMEA - LTE CatM1 band 20, 8, 3, 2G FB band 8, 3 - IP 68 – GNSS - Li.Ion battery backup - RS232 2 wires - 2 I/O - 1 Wire interface - AVL Software
B43H001S	Tracker BOLERO43 - NA-LTE CatM1 band 13-IP 68, GNSS - Li.Ion baterry backup - RS232 2 wires - 2 I/O - 1 Wire interface - AVL Software
B43H207S	Tracker BOLERO43 - Japan - Waterproof IP68-Rated Vehicle - 10.8 V Dc ~ 48 V Dc - Li-Ion Battery Backup - Ignition - Can Bus X 1 - Versatile I/O X 2 - 1-Wire Interface X 1 - 3-Way Concurrent GNSS

Learn More at lantronix.com/bolero40-series

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