BOLERO40 Series

IP68-Rated and Roadworthy Micro-Tracker

Available in 2G, LTE-M1 and 3G, the BOLERO40 series of rugged micro-trackers is especially designed to match the environmental, mechanical and electrical requirements of the vehicle tracking market.

Trustworthy Automotive Compliant Design

- Performance in even the harshest environments.
- V0 flame retardant
- Waterproof (immersion at 1.2 metres for 60 minutes)
- Dustproof

“Indestructible” Power Section

Resilient power supply offering roadworthy 10.8 VDC ~ 48.0 VDC.
Ideal for electrical and recreational vehicles

Save Money and Ensures Highest Coverage Available with Dual Sim Function

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

Improve Efficiency with Smart Remote Management

- PFAL monitors the vehicle environment and responds instantly to user-defined threshold conditions related to input, time, date, location, zone, motion and other event combinations

D2Sphere™ device management services let you monitor, diagnose, control and update your Lantronix Mobility Solution Devices. Information such as signal strength, geographic location, battery state, temperature, device firmware and software versions can be remotely monitored, stored and presented to help you maintain connectivity, manage quality of service and prevent downtime.
**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**: 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 slave ID
- **Multi power saving mode**: a
- **Accelerometer**: Built in, ± 8g triple-axis (moving, standing, harsh bracking and acceleration, tilt detection)
- **LEDs**: User-configurable (e.g. Cellular, GNSS, Power ... etc.)
- **Cloud Services**: Embedded profile to connect to D2S™ device management

**Power**

- **Main source**: Roadworthy 10.8 VDC ~ 48.0 VDC
- **Alternate source**: Li-ion 3.15 Wh backup battery
- **Average Power consumption (Wh)**: At temp.= 23°C, DCin=12 V; BOLERO41: 2G (1800 MHz); BOLERO45: 3G (2100 MHz)
- **Max. 32 VDC**: Standby*: 0.61 (BOLERO41); 0.61 (BOLERO45)
- **Tx max:** 1.90 (BOLERO41); 2.28 (BOLERO45)
- **These values will be about 50 mA higher during battery charging**

**Firmware Features**

- Embedded TCP/IP stack for client-server application
- Support SMS/USDD/TCP/IP/UDP/SMTP/HTTP
- FALCOM 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
- FALCOM PREMIUM features supported
- Local and OTA firmware update
- Local and OTA device configuration
- Based on compliance with RED; EN 60950-1; etc.