Fox3 Highlights

- Send to the cloud only what you need with the FOX3 edge processing and local data storage to reduce your recurring cost and ensure the fastest response time from your device.
- Keep critical data safe from cyber attack by using advanced encryption such as AES, SSL/TLS.
- Collect vehicle information such as tachograph (FMS), RPM (x1000), temperature, fuel level, with high accuracy using Lantronix “Premium Features.”
- Collect ID, buzz, magnetic detection, movement, temperature, using BLE sensors “approved by Lantronix” or bring your own.

The Complete Package to Successfully Deploy Your Telematics Projects

Many projects fail due to the lack of integration between hardware, connectivity from service providers, critical accessories such as antennas and the lack of adaptation to the field. Lantronix provides a versatile telematics gateway that connects the featured scenarios, connectivity, advanced support and a device management platform, ConsoleFlow™, for device performance, location and real-time notifications of critical events.

A Large Choice Of Hardware Interface To Connect Your Vehicle Globally

FOX3 Series gateways are customizable, compact all-in-one devices combining cellular data connection with the latest GNSS technology, along with a variety of inputs and outputs.

Protect and Process in the Edge; Do Your Own Customization

Simply connect the FOX3 gateway to any telematics platform with powerful PFAL scripting language or the highly popular LUA. The FOX3 also supports MQTT and REST API to ease your hardware integration and shorten your time to market.

ConsoleFlow™ Centralized Device Management Platform

Monitor, manage, and control your devices from anywhere, at any time with the ready-to-use software platform web application. The easy-to-use platform provides software-defined automation with zero-touch provisioning across all of your devices and the capture of device telemetry data for event management and analytics.

Connectivity Services - IoT Cellular Platform

Lantronix’s cloud-based Connectivity Services platform provides users the ability to activate, monitor and manage connectivity for all devices. The easy-to-use dashboard and analytics tools provide key insights into connectivity solution operations. Extensive diagnostics help troubleshoot any connectivity issues that may arise.

Lantronix, Inc., a 30 year storied M2M and IoT specialist, designs, manufactures and sells worldwide state-of-the-art devices, services and solutions ideally suited to numerous applications: fleet management, car-sharing, usage-based insurance, asset and workforce tracking and security, precision farming, and more.
General
4G / 3G / 2G bands: (refer to the table below)
Internet (TCP/UDP/HTTP/SMT)
Multi channel GNSS
(GPS/Galileo/GLONASS/Balise)
A-GPS (online / offline / autonomous)
Protocols: NMEA, FALCOM (binary)
Accuracy: GPS 13, GLONASS 13, GALILEO 13, BEIDOU 13
Position: 2.5 m 13, 4.0 m 13
Acquisition / Sensitivity:
Cold Start: 29 s 13, 30 s 13
Tracking: -161 dBm 13, -158 dBm 13
Sensitivity: -148 dBm 13, -145 dBm 13
GNSS Operational limits:
Velocity: 500 m/s (972 knots) 13
Altitude: 50.000 m 13
Update rate: 1 Hz
GSM / GNSS Antennas
Internal and external, with automatic/manual switching.

Electrical Characteristics
Power supply: +10.8 V to +32.0 V DC
Internal 1000 mAh rechargeable battery
Average Power Consumption
Normal operation: 50mA @ 12 VDC
Sleep mode: < 1mA @ 12 VDC
Environmental Data
Operating temp.: -40°C to +85°C
Storage temp.: -40°C to +85°C
GSM: -40°C to +85°C
Battery charge:
Discharging temp.: -20°C to +60°C
Charging temp.: 0°C to +45°C
Physical Characteristics
Dimensions (LxWxH): 105 mm x 83 mm x 28 mm

Interfaces
3 x Digital/analog IO ports (user-configurable)
1 x Predefined digital input (Ignion)
3 x LED indicators (user-configurable)
2 x RS-232 Ports (1/2x24 level, 1xR/S-232/RS-485)
1 x 11pin Mini-USB connector (for IOBOX-MINI), IOBOX-CAN1 or IOBOX-WLAN
1 x 1-Wire interface (incl. 5V Phantom Power)
1 x IIC interface
1 x 4pin audio jack interface (2.5 mm) 13
1 x CAN-Bus Interface 13 (uses 2 of 3 I/Os)
1 x Inside SIM card holder for 1,8/3 V SIM cards
1 x USB 2.0 interface

Sensor / Measurement Range
3-axis Acceleration/Temperature
- 3DG: ± 8g (programmable)
- Temperature: -50 to +120°C (programmable)

Processor Core
RTC
8 MB Flash (History / Firmware / Configuration)

Options
- 3000 programmable Geofences
- 2000 programmable Waypoints
- 250 programmable Alarms
- ECO-Drive-GPS functions
- Passive/active RFID based applications
- NFC based applications
- Internal GSM/GNSS antennas & connectors for optional external antennas 1)
- Hardware expandable via IOBOX-MINI, IOBOX-CAN1 or IOBOX-WLAN
- Theft protection
- Car sharing
- Fleet management / monitoring
- Real time online tracking
- Trip management / distance calculations
- Public transportation
- Real time satellite navigation
- Territory management
- Route verification
- Driving behaviour / Eco-Drive monitoring
- Security / Emergency / Insurance services (UBI)
- Trip management / distance calculations
- Toll collection / Pay-As-You-Drive (PAYD)
- Compatible with ConsoleFlow centralized management and easily adaptable to other tracking servers

Applications
- FOX3 Series
- FOX3-Cellular Application Areas
- Communication Network
- Web Server
- User-Interface (ConsoleFlow)

Available Models
- FOX3-3G
- FOX3-3G-AU
- FOX3-3G-M1-BLE
- FOX3-M1-BLE
- FOX3-3G-M1-BLE
- FOX3-C1
- FOX3-C4

American Express, MasterCard, Discover, and JCB accepted. Order direct or contact Lantronix for detailed quotations.

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