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.

**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.

Want to deploy in a complex industrial environment or urban canyon? The FOX3 is designed to operate with internal or external antennas as well as dead reckoning mode, which dramatically simplifies logistics, the installation process and the post-installation support.

**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.

**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.
FOX3 Series

Telematics Gateway

General

- 4G / 3G / 2G bands (refer to the table below)
- Internet (TCP/UDP/HTTP/SMTP)
- Multi-channel GNSS
  - (GPS/Galileo/GLONASS/BeiDou)
- A-GPS (online / offline / autonomous)
- Protocols: NMEA, FALCOM (binary)
- Accuracy: GPS GLONASS
- Position: 2.5 m 4.0 m
- Acquisition / Sensitivity: Cold Start: 29 s 30 s
- Tracking: -161 dBm -158 dBm
- Sensitivity: -148 dBm -145 dBm
- GPS Operational limits:
  - Velocity: 500 m/s (972 knots)
  - Altitude: 50,000 m
- Update rate: 1 Hz
- GSM / GNSS Antennas
  - Internal and external with automatic/manual

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: Battery0
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

- 3x Digital/analog IO ports (user-configurable)
- 1x Predefined digital input (Ignition)
- 3x LED indicators (user-configurable)
- 2x RS-232 Ports (1xV.24 level, 1xRS-232/RS-485 )
- 1x 10pin Mini-USB connector (for iOBOX-MINI, iOBOX-CAN, or iOBOX-WLAN)
- 1x 1-Wire interface (incl. 5V Phantom Power)
- 1x PC interface
- 1x 4pin audio jack interface (2.5mm)
- 1x CAN-Bus interface (uses 2 of 3/0s)
- 1x Inside SIM card holder for 1,8/3 V SIM cards
- 1x USB 2.0 interface

Sensor / Measurement Range

- 3-axis Acceleration/Temperature
  - 2G: ±8 g (programmable)
  - Temperature: -50 to +120°C (programmable)

Processor Core

- RTC
- 8 MB Flash (History / Firmware / Configuration)

Options

- 3000 programmable Geofences
- 2500 programmable Waypoints
- ECO-Drive-GPS functions
- Customizable firmware configuration
- Real time online tracking
- Fleet management / monitoring
- Car sharing
- Waste management
- Theft protection
- Public transportation
- Real time satellite navigation
- Territory management
- Route verification
- Trip management / distance calculations
- PROMOTION KIT providing all necessary hardware, software, documentary, SIM Card and trial access to the ConsoleFlow centralized management platform including 8h technical training support
- ConsoleFlow device management platform to monitor, diagnose, control and update your devices
- Driving behaviour / Eco-Drive monitoring
- Security / Emergency / Insurance services (UBI)
- Toll collection / Pay-As-You-Drive (PAYD)
- Compatible with ConsoleFlow centralized management and easily adaptable to other tracking servers

GNSS

- Special Interest Group (SIG)
- ISO 7637-2:2011
- Japan: +81.8.50.1354.6201
- Asia-Pacific

Available Modules

<table>
<thead>
<tr>
<th>MODEL NAME</th>
<th>GEOGRAPHICAL AREA</th>
<th>CELLULAR TYPE</th>
<th>BANDS</th>
<th>FALLBACK MODE</th>
<th>BANDS</th>
<th>SPECIAL FEATURE</th>
<th>CERTIFICATIONS</th>
<th>FCS CODE</th>
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<td>FOX3-C1</td>
<td>EMEA</td>
<td>LTE cat. 1</td>
<td>20/3/7</td>
<td>8/3</td>
<td>N/A</td>
<td>Audio</td>
<td>E-Mark</td>
<td>F37H03FS</td>
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Please consult us regarding the models or features shown in gray, which are subject to MOQ and other considerations.

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