FOX3-2G/3G/4G
ADVANCED VEHICLE TELEMATICS AND DATA LOGGING SYSTEM WITH HIGH SPEED DATA CONNECTION

FOX3-2G/3G/4G Series is a compact all-in-one device combining 2G/3G/4G data connection with the latest GNSS technology to completely satisfy customer’s need. It is a highly customizable vehicle telematics device and it offers a variety of inputs and outputs to satisfy the most demanding requirements. A box (IOBOX-MINI, IOBOX-CAN or IOBOX-WLAN) can be used to extend the functionality of the FOX3-2G/3G/4G Series for the most flexible expansion options in the industry. FOX3-2G/3G/4G Series is designed to operate with internal or external antennas. Built-in internal antennas are automatically turned off while external antennas are in use. This device will dramatically simplify your logistics as well as the installation process and the post-installation support. Newly developed LANTRONIX “Premium-Features” show the way to the future of mobile data logging, storing, processing and sending. FOX3-2G/3G/4G Series is an advanced and fully customizable vehicle tracking device. FOX3-2G/3G/4G Series offers new features like: Data Encryption, several History Modes, Eco-
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:
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*: -40 °C to +85 °C
Battery 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

Interfaces
3 x Digital/analog IO ports (user-configurable)
1 x Predefined digital input (Ignition)
3 x LED indicators (user-configurable)
2 x RS-232 Ports (1xV.24 level:1xRS-232/RS-485®)
1 x 10pin Mini-USB connector (for IOBOX-MINI®,
IOBOX-CAN® or IOBOX-WLAN®)
1 x 1-Wire interface (incl. 5V Phantom Power)
1 x I²C interface
1 x 4pin audio jack interface (2.5mm®)
1 x CAN-Bus interface® (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
- 3DG: ± 5° (programmable)
- Temperature: -50 to +120 °C (programmable)

Processor core
RTC®
8 MB Flash/History/Firmware/Configuration

1) Optional / Accessory
2) Activation with PFAL-Command.
3) The GSM/GPRS module is fully functional (-20 °C to +55 °C meets the 3GPP specifications)
4) Applicable with backup battery
5) Hardware Premium Features: CAN-interface
6) Available on FOX3-3G-AU and FOX3-2G only
7) Storage and using conditions of the device with battery option are limited to the battery temperature range.

<table>
<thead>
<tr>
<th>PRODUCT</th>
<th>4G® BAND</th>
<th>3G®</th>
<th>2G</th>
<th>CERTIFICATIO</th>
<th>FEATURES</th>
<th>REGIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>FOX3-2G</td>
<td>-</td>
<td>-</td>
<td>Quad</td>
<td>CE, E1</td>
<td>Standard (with)</td>
<td>World</td>
</tr>
<tr>
<td>FOX3-3G Std.</td>
<td>-</td>
<td>1/2/5/8/19</td>
<td>Quad</td>
<td>(CE, ISED, FCC, BT)</td>
<td>Standard (no audio)</td>
<td>World</td>
</tr>
<tr>
<td>FOX3-3G-BLE</td>
<td>-</td>
<td>1/2/5/8/19</td>
<td>Quad</td>
<td>E-Mark (CE, ISED, FCC, BT)</td>
<td>Bluetooth Low</td>
<td>World</td>
</tr>
<tr>
<td>FOX3-3G-AU</td>
<td>-</td>
<td>1/2/5/8/19</td>
<td>Quad</td>
<td>(CE, E-Mark)</td>
<td>Audio (Spk.) +</td>
<td>World</td>
</tr>
<tr>
<td>FOX3-3G-DR</td>
<td>-</td>
<td>1/2/5/8/19</td>
<td>Quad</td>
<td>(CE, E-Mark)</td>
<td>Dead-Reckoning</td>
<td>World</td>
</tr>
<tr>
<td>FOX3-3G-BID</td>
<td>-</td>
<td>1/2/5/8/19</td>
<td>Quad</td>
<td>(CE, E-Mark)</td>
<td>BlueID Technology</td>
<td>World</td>
</tr>
<tr>
<td>FOX3-4G-C4</td>
<td>Cat 4: 2/4/5/7/17</td>
<td>1/2/4/5/8/15</td>
<td>Quad</td>
<td>CE, E1, ISED, FCC</td>
<td>Standard (no audio)</td>
<td>4G North America, 3G/2G World</td>
</tr>
<tr>
<td>FOX3-4G-C1</td>
<td>Cat 1: 3/7/20</td>
<td>-</td>
<td>900/1800</td>
<td>CE, E-Mark</td>
<td>Standard (no audio)</td>
<td>4G Europa, 2G Dual-band</td>
</tr>
</tbody>
</table>

4G/3G fall BACK

© 2019 Lantronix, Inc. All rights reserved. Lantronix is a registered trademark of Lantronix, Inc. in the U.S. and other countries. FOX3 is a trademark of Lantronix, Inc. All other trademarks are the property of their respective owners. Specifications subject to change without notice MPB-00065, Rev B.