# **FOX3 Series**



## ADVANCED TELEMATICS GATEWAY

Lantronix, Inc., a 30 year storied M2M and IoT specialist, designs, manufactures and sells worldwide state-of-theart devices, services and solutions ideally suited to numerous applications: fleet management, car-sharing, usagebased 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<sup>™</sup> Centralized Device Management Platform**

Monitor, manage, and control your devices from anywhere, at any time with the ready-touse 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.

## 

#### Perfect For





Car-sharing Management

Commercial Vehicle







Asset & Workforce Tracking

Precision Farming

#### **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

| General  |   | Electrical Cha   | ractoristics   |  | Interfaces   |  |  |  |
|--|---|--|--|--|--|--|--|--|
| 4G /3G / 2G bands: (refer to the table below)  |   |  | Electrical Characteristics   |  |  | Interfaces   |  |  |
|  |   |  | Power supply: +10.8 V~ 60 V DC   |  |  | 3 x Digital/analog IO ports (user-configurable)  |  |  |
| Internet (TCP/UDP/HTTP   | /SMTP)  |  | Internal 1000 mAh rechargeable battery <sup>1)</sup>   |  |  | 1 x Predefined digital input (Ignition)  |  |  |
| Multi channel GNSS   |   |  | Average Power Consumption  |  |  | 3 x LED indicators (user-configurable)   |  |  |
| (GPS/Galileo/GLONASS/E   | /   |  | Normal operation: 50mA @ 12 VDC  |  | 2 x RS-232 Ports (1xV.24 level;1xRS-232/RS-485 <sup>2)5)</sup> )               |  |  |  |
| A-GPS (online / offline /au  | utonomous)  | Sleep mode   |  | < 1mA @ 12 VDC   | 1 x 10pin Mini-USB conn  | 1 x 10pin Mini-USB connector (for IOBOX-MINI <sup>1)</sup> ,   |  |  |
| Protocols: NM  | IEA, FALCOM (binary)  | Environmenta   | Data   |  | IOBOX-CAN <sup>1)</sup> or IOB   |  |  |  |
| Accuracy: GPS  |   | Operating te   |  | -40°C to +85°C   | 1 x 1-Wire interface (incl.  |  | er)  |  |
| Position: 2.5  |   | Storage tem  |  | -40°C to +85°C   | 1 x I <sup>2</sup> C interface   | ov i nancontri ovic  |  |  |
| Acquisition / Sensitivity:   | 4.0111  | GSM <sup>3</sup> :   | ip   | -40°C to +85°C   | 1 x 4pin audio jack interfa  | 200 (2 Emm) <sup>6)</sup>  |  |  |
|  | s 30 s  |  | charging temp.:  |  |  |  |  |  |
|  |   |  |  | -20°C to +60°C   | 1 x CAN-Bus Interface <sup>2)5)</sup>  |  |  |  |
| 5  | 1 dBm -158 dBm  |  | ng temp :  | 0°C to +45°C   | 1 x Inside SIM card holde  | ertor 1,8/3 v SIIVI ca   | ards   |  |
|  | 8 dBm 🛛 -145 dBm  | Physical Chara   |  |  | 1 x USB 2.0 interface  |  |  |  |
| GPS Operational limits:  |   | Dimensions   | Dimensions (LxWxH): 105 mm x 83 mm x 28 mm   |  |  | Sensor / Measurement Range   |  |  |
| Velocity: 500  | ) m/s (972 knots)   |  |  |  |  | 3-axis Acceleration/Temperature  |  |  |
| Altitude: 50.0   | 000 m   |  | - 3DG: ± 8g (programmable)   |  |  |  |  |  |
| Update rate: 1 H   |   |  |  |  | - Temperature: - 50 to + 120°C (programmable)                                  |  |  |  |
| GSM / GNSS Antennas  |   |  |  |  | Processor Core   |  | (  |  |
| -  | <sup>!)</sup> with automatic/manu                                     | a  |  |  | RTC  |  |  |  |
| Internarana external   | with a domato/ manu-  |  |  | 8 MB Flash (History / Firmware / Configuration)  |  |  | tion)  |  |
|  |   |  |  |  | o ivid Hash (History / Fin   | nware / Configurat   |  |  |
| ) Optional / Accessory.  |   | ule is fully functional (-20°C to + 55   | °C meets the 3GPP spec   | sifications).  | 5) Hardware Premium Features: C  |  |  |  |
| ) Activation with PFAL-Command.  | <ol> <li>Applicable with backup<br/>Storage and using con-</li> </ol> | p battery.<br>ditions of the device with battery op  | tion are limited to the bat  | tery temperature range.  | 6) Available on FOX3-3G-AU and F   | JX3-2G only.   |  |  |
| 0000   |   |  |  |  |  |  |  |  |
| 3000 programmable (  |   | /e RFID based a  | pplications  | PROMOTION KIT pro  | viding all necessa   | ary  |  |  |
| 2000 programmable V  | <ul> <li>NFC based a</li> </ul>                                       |  |  | hardware, software, documentation, SIM Card<br>and trial access to the ConsoleFlow™ centraliz  |  |  |  |  |
| 250 programmable Al  | arms  | <ul> <li>Internal GSM</li> </ul>   | /GNSS antenna  | s & connectors for   | and that access to th  | e consoleFlow"" (  | obnicol  |  |
| ECO-Drive-GPS function   |   |  | rnal antennas <sup>1)</sup>  |  | management platform including 8h technical                                     |  |  |  |
| Customizable firmwar   | e configuration   | <ul> <li>Hardware ex</li> </ul>  | pandable via IOE   | BOX-MINI <sup>1)</sup> ,   | training support <ul> <li>ConsoleFlow device management platform to</li> </ul> |  |  |  |
|  |   | IOBOX-CAN <sup>1)</sup>  | or IOBOX-WLAN  | 10   | <ul> <li>ConsoleFlow device m<br/>monitor, diagnose, cor</li> </ul>            | nanayer nent platto  | nin io<br>nir davia  |  |
|  |   |  |  |  |  |  |  |  |
| Real time online tracki  | ing   | <ul> <li>Public transp</li> </ul>  |  |  | • Driving behaviour / E  | co-Drive monitori  | ng   |  |
| Fleet management / n   | nonitoring  |  | <ul><li> Real time satellite navigation</li><li> Territory management</li></ul>              |  |  | <ul> <li>Security / Emergency / Insurance services (UB</li> <li>Toll collection / Pay-As-You-Drive (PAYD)</li> </ul> |  |  |
| Car sharing  | ÷   |  |  |  |  |  |  |  |
| Waste management   |   | <ul> <li>Route verifica</li> </ul>   |  |  | Compatible with ConsoleFlow centralized  |  |  |  |
| Theft protection   |   | <ul> <li>Trip manader</li> </ul>   | Trip management / distance calculations  |  |  | management and easily adaptable to other   |  |  |
|  |   | ,  |  |  | tracking servers   |  |  |  |
| ment protection  |   |  |  |  | 5  |  |  |  |
| GNSS   | •   | ((i)) -  |  |  |  |  | 1  |  |
| GNSS   |   | (()) -   | NL   |  | SMS  |  | ]  |  |
| GNSS   |   | (()) -<br>GSM  | wack   |  |  |  |  |  |
| GNSS 👷 🔮 🔮   |   | ((j)) =<br>GSM   | all-back   |  |  | <b>e</b>   |  |  |
| GNSS 2 2   |   |  | orfall-back  |  |  |  |  |  |
| GNSS 2 2   |   |  | liar fall-back   |  |  |  |  |  |
| GNSS 2   |   | (())<br>GSM  | larfall-back   |  |  |  |  |  |
|  |   |  | Jiar fall-back   |  |  |  |  |  |
|  |   |  | Jiar fall-back   | Internet   |  |  |  |  |
| GNSS   |   |  |  |  |  |  | _  |  |
| G N S S CELLULAR AP  | PLICATION AREA  |  | ATION NETWORK  |  |  | R-INTERFACE (Co  | _  |  |
| GNSS<br>CONSCIENCE<br>CONSCIENCE<br>FOX3-CELLULAR AP   | Cellular  |  | ATION NETWORK  | NDC2 SPECIAL   | SMS  | R-INTERFACE (Co  | nsoleFlow<br>Order   |  |
| GNSS<br>CONSCELLULAR AP  | CELUIUM   |  |  | ···  | SMS  | R-INTERFACE (Co  | nsoleFlow  |  |
| GNSS<br>CONSCIENCE<br>FOX3-CELLULAR AP   | Cellular  |  | ATION NETWORK  | NDC2 SPECIAL   | SMS  | R-INTERFACE (Co  | nsoleFlow<br>Order   |  |
| GNSS<br>CONSCILUTER AD<br>EOX3-CELLULAR AD<br>MODEL<br>MODEL<br>CEOGRAPHIC   | Cellular  |  | ATION NETWORK  | NDC2 SPECIAL   | SMS  | R-INTERFACE (Co  | nsoleFlow<br>Order<br>Code   |  |
| G N S S<br>G N S S<br>FOX3-CELLULAR AP<br>MODEL<br>NAME<br>CEOGRAPHIC<br>FOX3-3G<br>FOX3-3G-AU   | AL AREA CELLULAR<br>TYPE '  | COMMUNIC<br>BANDS <sup>2</sup>   | ATION NETWORK  | NDS <sup>2</sup> SPECIAL<br>FEATURE  | SMS  | R-INTERFACE (Co  | nsoleFlow<br>Order<br>Code<br>F35H0  |  |
| G N S S<br>G N S S<br>FOX3-CELLULAR AP<br>MODEL<br>FOX3-3G<br>FOX3-3G<br>FOX3-3G<br>World <sup>5</sup>   | Cellular  |  | ATION NETWORK  | NDS <sup>2</sup> SPECIAL FEATURE   | SMS  | ER-INTERFACE (Co<br>DERATION FCS <sup>4</sup><br>Jun. '15  | NSOLEFIOW<br>Order<br>Code<br>F35H(<br>F35H(   |  |
| G N S S<br>G N S S<br>FOX3-CELLULAR AP<br>MODEL<br>FOX3-3G-AU<br>FOX3-3G-AU<br>FOX3-3G-DR<br>World <sup>5</sup>  | AL AREA CELLULAR<br>TYPE '  | COMMUNIC<br>BANDS <sup>2</sup>   | ATION NETWORK  | NDS <sup>2</sup> SPECIAL FEATURE   | SMS  | ER-INTERFACE (Co<br>DERATION FCS <sup>4</sup><br>Jun. '15  | NSOLE FLOW<br>ORDER<br>CODE<br>F35HI<br>F35HI<br>F35RI   |  |
| G N S S<br>G N S S<br>FOX3-CELLULAR AP<br>MODEL<br>FOX3-3G-AU<br>FOX3-3G-AU<br>FOX3-3G-DR<br>World <sup>5</sup>  | AL AREA CELLULAR<br>TYPE '  | COMMUNIC<br>BANDS <sup>2</sup>   | ATION NETWORK  | NDS <sup>2</sup> SPECIAL FEATURE  X Audio Dead Reckoning   | SMS  | ER-INTERFACE (Co<br>DERATION FCS <sup>4</sup><br>Jun. '15  | NSOLE FLOW<br>ORDER<br>CODE<br>F35H(<br>F35H(<br>F35R(   |  |
| G N S S<br>G N S S<br>FOX3-CELLULAR AP<br>FOX3-3G-AU<br>FOX3-3G-AU<br>FOX3-3G-DR<br>FOX3-3G-BLE<br>FOX3-3M   | AL AREA CELLULAR<br>TYPE ?<br>36 <sup>4/</sup>                        | BANDS <sup>2</sup><br>5 <sup>4</sup> /8/2/1  | ATION NETWORK  | NDS <sup>2</sup> SPECIAL FEATURE   | SMS  | ER-INTERFACE (Co<br>DERATION FCS <sup>4</sup><br>Jun. '15  | NSOLE FLOW<br>ORDER<br>CODE<br>F35H0<br>F35H0<br>F35H0   |  |
| G N S S<br>G N S S<br>FOX3-CELLULAR AP<br>FOX3-3G-AU<br>FOX3-3G-AU<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3M<br>World <sup>5</sup>  | AL AREA CELLULAR<br>TYPE '  | COMMUNIC<br>BANDS <sup>2</sup>   | ATION NETWORK<br>FALLBACK<br>MODE(S) <sup>7</sup> BA<br>26 <sup>A2</sup>                     | NDS <sup>2</sup> SPECIAL<br>FEATURE<br>X<br>Audio<br>Dead Reckoning<br>Bluetooth <sup>®</sup> 4.0 <sup>6</sup><br>X  | SMS  | ER-INTERFACE (Co<br>DERATION FCS <sup>4</sup><br>Jun. '15  | ORDER           CODE           F35H0           F35H0           F35H0           F35H0           F35H0           F35H0           F35H0           F35H0           F35H0                                   |  |
| G N S S<br>G N S S<br>FOX3-CELLULAR AP<br>FOX3-3G-AU<br>FOX3-3G-AU<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-3G-BL | AL AREA CELLULAR<br>TYPE?<br>3G <sup>37</sup><br>LTE-M1               | COMMUNIC<br>BANDS <sup>2</sup><br>5º/8/2/1<br>12 <sup>b</sup> /28/13/20/26 <sup>c</sup> /8/3/4/2           | ATION NETWORK  | NDS <sup>2</sup> SPECIAL<br>FEATURE<br>X<br>Audio<br>Dead Reckoning<br>Bluetooth <sup>®</sup> 4.0 <sup>6</sup><br>X<br>Bluetooth <sup>®</sup> 4.0 <sup>6</sup> | SMS  | ER-INTERFACE (Co<br>PERATION FCS <sup>1</sup><br>Jun. '15<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>50<br>5 | ORDER<br>CODE<br>F35HC<br>F35HC<br>F35HC<br>F35HC<br>F35HC<br>F33HC<br>F33HC   |  |
| G N S S<br>G N S S<br>FOX3-CELLULAR AP<br>FOX3-3G-AU<br>FOX3-3G-AU<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-M1<br>FOX3-M1-BLE<br>World  | AL AREA CELLULAR<br>TYPE ?<br>36 <sup>4/</sup>                        | BANDS <sup>2</sup><br>5 <sup>4</sup> /8/2/1  | ATION NETWORK<br>FALLBACK<br>MODE(S) <sup>7</sup> BA<br>26 <sup>A2</sup>                     | NDS <sup>2</sup> SPECIAL<br>FEATURE<br>X<br>Audio<br>Dead Reckoning<br>Bluetooth <sup>®</sup> 4.0 <sup>6</sup><br>X  | SMS  | ER-INTERFACE (Co<br>PERATION FCS <sup>4</sup><br>Jun. '15<br>150<br>150<br>150<br>150<br>150<br>150<br>150<br>1      | ORDER           F35H0           F35H0           F35H0           F35H0           F35H0           F33H0           F33H0           F33H0           F33H0  |  |
| G N S S<br>G N S S<br>FOX3-CELLULAR AP<br>FOX3-3G<br>FOX3-3G-DR<br>FOX3-3G-DR<br>FOX3-3G-BLE<br>FOX3-3G-BLE<br>FOX3-M1<br>FOX3-M1<br>FOX3-C1<br>EMEA   | AL AREA CELLULAR TYPE ' 3G <sup>AI</sup> LTE-M1 LTE cat. 1            | COMMUNIC<br>BANDS <sup>2</sup><br>5º/8/2/1<br>12 <sup>b</sup> /28/13/20/26 <sup>c</sup> /8/3/4/2           | ATION NETWORK<br>FALLBACK<br>MODE(S) <sup>7</sup> ВА<br>26 <sup>32</sup><br>26 <sup>33</sup> | NDS <sup>2</sup> SPECIAL<br>FEATURE<br>X<br>Audio<br>Dead Reckoning<br>Bluetooth <sup>®</sup> 4.0 <sup>6</sup><br>X<br>Bluetooth <sup>®</sup> 4.0 <sup>6</sup> | SMS  | ER-INTERFACE (Co<br>DERATION FCS <sup>4</sup><br>Jun. '15  | ORDER           CORDER           F35H0           F35H0 |  |
| G N S S<br>G N S S<br>FOX3-CELLULAR AP<br>FOX3-3G<br>FOX3-3G-AU<br>FOX3-3G-AU<br>FOX3-3G-DR<br>FOX3-3G-BLE<br>FOX3-M1<br>FOX3-M1<br>FOX3-M1<br>FOX3-M1<br>FOX3-M1<br>FOX3-C1   | AL AREA CELLULAR<br>TYPE?<br>3G <sup>37</sup><br>LTE-M1               | COMMUNIC<br>BANDS <sup>2</sup><br>5º/8/2/1<br>12 <sup>b</sup> /28/13/20/26 <sup>c</sup> /8/3/4/2<br>20/3/7 | ATION NETWORK<br>FALLBACK<br>MODE(S) <sup>7</sup> ВА<br>26 <sup>32</sup><br>26 <sup>33</sup> | NDS <sup>2</sup> SPECIAL<br>FEATURE       ×     Audio       5/8/3/2     Bluetooth® 4.0 6       ×     Bluetooth® 4.0 5       8/3     Bluetooth® 4.0 5           | SMS  | ER-INTERFACE (Co<br>PERATION FCS <sup>4</sup><br>Jun. '15<br>150<br>150<br>150<br>150<br>150<br>150<br>150<br>1      | ORDER           CORDER           F35HC           F35HC           F35HC           F35HC           F35HC           F33HC           F33HC           F34HC   |  |

Please consult us regarding the models or features shown in grey, which are subject to MOQ and other considerations. <sup>2</sup> Ranked by increasing frequencies

\* incl. NTT docomo's B19, itself incl. Japan's B6

 $^{\rm c}\,$  incl. KDDI's B18 as well as North America's B5 – cf. note  $^{\rm a}$ 

<sup>d</sup> Not available on the European model, American model only

<sup>b</sup> incl. North America's B17

<sup>1</sup> Uplink / Downlink maximum data rates

- 2G: (λ1) 42<sup>s</sup> / 85<sup>s</sup>; or (λ2) 236<sup>s</sup> / 236<sup>s</sup>; or (λ3) 236<sup>s</sup> / 296 kbps
- 3G: (λ1) 5<sup>76</sup> / 7<sup>2</sup>; or (λ2) 5<sup>76</sup> / 42<sup>2</sup> Mbps

- LTE-M1 [NB1]: 375 / 300 [31 25 / 27 2] kbps

- LTE cat. 1: 5<sup>2</sup> / 10<sup>3</sup> Mbps LTE cat. 4: 50 / 150 Mbps

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<sup>3</sup> Please consult us, should any other certification be required

<sup>7</sup> By the Bluetooth<sup>®</sup> Special Interest Group ("SIG") <sup>8</sup> And even more stringent <u>ISO 7637-2:2004</u>, @12 V and @24 V, by TÜV

<sup>5</sup> A special software build is available for NTT docomo

<sup>4</sup> First customer shipment [date of]

°@48 V, by QuieTek

<sup>6</sup> Please consult us for a BlueID variant

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**OPTIONS** 

**TECHNICAL SPECIFICATIONS**