

# LogBox CONNECT

LogBox Connect provides the connectivity and data acquisitions solution for any type of application, due its different wireless models is the entrance for the connected world.

Wireless communication, large autonomy and flexibility for sensor types are the highlights of LogBox Connect. Large display, mobility and easy installation completes the value added.

Configuration and data downloading can be performed by mobile device or computer.



LogBox BLE

## Bluetooth Multi Channel Data Logger

- ✓ Monitoring for applications demanding battery-powered operation
- ✓ Configuration and data downloading via USB or Bluetooth
- ✓ Full operation with 4 AA alkaline batteries (or 10~30 Vdc power supply)
- ✓ Bluetooth data Communication using mobile application NXperience Mobile
- ✓ Autonomy up to 2 years with batteries
- ✓ Buzzer Alarms

### Applications:



Laboratories



Cold Chain



Data Centers



LogBox Wi-Fi

## Wi-Fi Multi Channel Data Logger

- ✓ Monitoring of distributed and large facilities with existing Wi-Fi infrastructure
- ✓ Configuration and data downloading via USB or Wi-Fi
- ✓ Alarm notification by email
- ✓ Wi-Fi data communication using NXperience, cloud systems, SCADA or NOVUS Cloud
- ✓ Modbus TCP and MQTT protocols

### Applications:



Distribution Centers



Cold Chain



Commercial Refrigeration



LogBox 3G

## 3G/2G Multi Channel Data Logger

- ✓ Monitoring in mobile or outbound distributed applications
- ✓ Configuration and data download via USB or 3G
- ✓ Alarm notification by SMS
- ✓ Internal rechargeable backup battery for up to 8 hours of autonomy
- ✓ Data transmission via 3G cell network using NXperience, SCADA or NOVUS Cloud
- ✓ Version with GPS for data with geolocation

### Applications:



Utility Services



Sensible Products in Transportation



Agricultural Greenhouses

# Configuration and data downloading

## COMPUTER

NXperience software is the main tool for configuration and data download of LogBox Connect. All parameters and features can be adjusted, making NXperience the complete tool for data analysis, graphical view, mathematical formulas creation and report issuance.

NXperience can download data from several LogBoxes in customer facilities.



## SCADA

LogBox Wi-Fi and LogBox 3G models can be used as monitoring elements from SCADA system.

LogBox Wi-Fi has ModBus TCP protocol, available in most SCADA for market, and MQTT protocol, emerging standard for IoT. For LogBox 3G, NOVUS provides a DLL/API which can be integrated to communication driver from SCADA or to be integrated in dedicated applications.



## MOBILE DEVICE

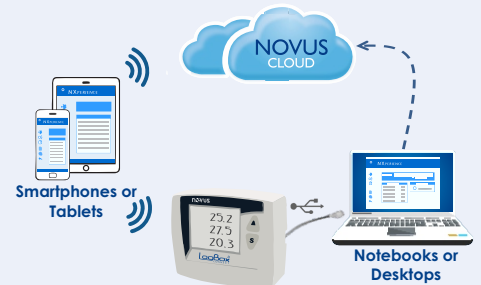
NXperience Mobile is a mobile application that can be used in mobile devices, it is the ideal tool for daily operations such as monitoring, data downloading or configuration of LogBox BLE and LogBox Wi-Fi, taking advantage of wireless communication mobility. With NXperience Mobile, it is possible to configure, diagnose and collect multiple registrars.



## CLOUD PORTALS

All data from LogBox Connect, LogBox Wi-Fi e LogBox 3G can be transmitted directly application to cloud portals, like NOVUS Cloud.

This platform, IoT compatible, allows to store and present variables like temperature, humidity, pressure, flow, geolocation or any other variable, monitored and recorded by LogBox Connect.



# Technical Features

	LogBox BLE	LogBox Wi-Fi	LogBox 3G
<b>Input Signal</b>	1 digital input 3 analog inputs	1 digital input 3 analog inputs	1 digital input 2 analog inputs
<b>Type of Analog Signal</b>	Thermocouples J, K, T, N, E, R, S, B, Pt100, 0-50 mV, 0-5 V, 0-10 V, 0-20 mA, 4-20 mA	Thermocouples J, K, T, N, E, R, S, B, Pt100, 0-50 mV, 0-5 V, 0-10 V, 0-20 mA, 4-20 mA	Thermocouples J, K, T, N, E, R, S, B, Pt100, 0-50 mV, 0-5 V, 0-10 V, 0-20 mA, 4-20 mA
<b>Function of Digital Input</b>	Counts Pulses, Records Events or Starts Logger	Counts Pulses, Records Events or Starts Logger	Counts Pulses, Records Events or Starts Logger
<b>Digital Output</b>	1 PNP output (Electronic Switch or Alarm)	1 PNP output (Electronic Switch or Alarm)	1 NPN output (Alarm)
<b>Internal Sensors</b>	NTC for temperature, battery voltage and external power supply	NTC for temperature, battery voltage and external power supply	NTC for temperature, battery voltage and external power supply
<b>Display</b>	3 lines with 4½ digits	3 lines with 4½ digits	3 lines with 4½ digits
<b>Resolution</b>	15 bits	15 bits	15 bits
<b>Memory Capability</b>	140.000 records	140.000 records	140.000 records
<b>Record Interval</b>	1 s to 18 h	1 s to 18 h	10 s to 12 h
<b>Variable Record</b>	Instantaneous or average	Instantaneous or average	Instantaneous or average
<b>Acquisition Trigger</b>	Date/Hour, Start button, digital input or by software	Date/Hour, Start button, digital input or by software	Date/Hour, Start button, digital input or by software
<b>Alarms</b>	8 Alarms (two per channel) Low and High	8 Alarms (two per channel) Low and High	Up to 10 alarms Send by SMS
<b>Internal Buzzer</b>	Yes	Yes	Yes
<b>Communication Interface</b>	USB Bluetooth 4.1 (BLE)	USB Wi-Fi 802.11 b/g/n	USB Cellular 3G
<b>Configuration Software</b>	NXperience Mobile for Android and iOS NXperience for Windows	NXperience Mobile for Android and iOS NXperience for Windows	NXperience for Windows
<b>Communication with SCADA or Cloud system</b>		MQTT, Modbus TCP protocols and NOVUS Cloud	NOVUS Cloud and SCADA
<b>Power Supply</b>	10-30 Vcc	10-30 Vcc	10-30 Vcc
<b>Backup Battery</b>	4 AA alkaline piles Typical autonomy 2 years	4 AA alkaline piles Typical autonomy 2 years (without Wi-Fi)	Internal backup battery Typical autonomy 2 hours
<b>Operation Temperature</b>	W/ power supply: -20 to 70 °C (-4 to 158 °F) W/ AA batteries: -10 to 50 °C (14 to 122 °F)	W/ power supply: -20 to 70 °C (-4 to 158 °F) W/ AA batteries: -10 to 50 °C (14 to 122 °F)	W/ power supply: -20 to 70 °C (-4 to 158 °F) W/ AA batteries: 0 to 45 °C (0 to 113 °F)
<b>Enclosure Protection</b>	IP40	IP40	IP40
<b>Dimensions</b>	120 x 100 x 40 mm (4.72" x 3.94" x 1.57")	120 x 100 x 40 mm (4.72" x 3.94" x 1.57")	120 x 100 x 40 mm (4.72" x 3.94" x 1.57")

