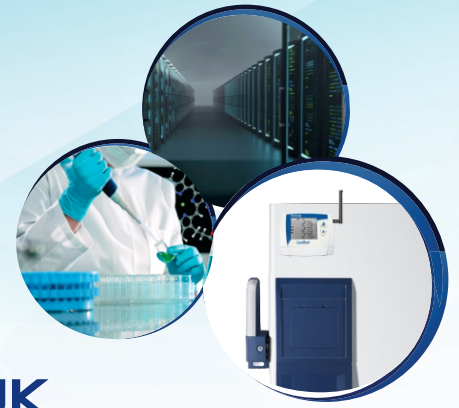


# LogBox CONNECT

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 LTE

## LTE Multi Channel Data Logger

- ✓ Suitable for mobile applications in long distance locations
- ✓ Configuration and data download via USB or NOVUS Cloud
- ✓ SMS alarm notification
- ✓ Built-in rechargeable backup battery
- ✓ Easy integration with NOVUS Cloud
- ✓ Data communication via LTE network through NXperience and SCADA

### Applications:



Utility Services



Sensible Products in Transportation



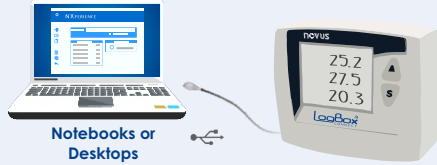
Agricultural Greenhouses

# 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 LTE models can be used as monitoring elements of a SCADA system. The LogBox Wi-Fi features Modbus TCP protocol, available in most SCADA systems on the market, and MQTT protocol, recognized as the standard for IoT systems. The LogBox LTE also has the MQTT protocol, which allows integration with cloud systems, such as NOVUS Cloud for example, or even generic brokers dedicated to remote application monitoring.



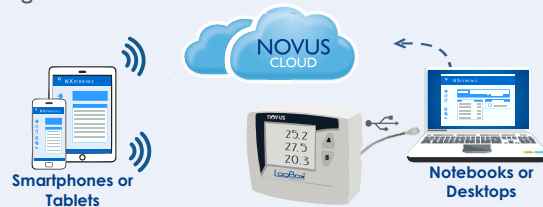
## MOBILE DEVICE

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, and LogBox LTE recorders can be transmitted directly to cloud portals such as NOVUS Cloud. This platform, compatible with IoT applications, allows you to store and display measurements of temperature, humidity, pressure, flow, or any other magnitude monitored and recorded by LogBox Connect.



# Technical Features

	LogBox BLE	LogBox Wi-Fi	LogBox LTE
<b>Input Signal</b>	1 digital input 3 analog inputs	1 digital input 3 analog inputs	2 analog, 2 interns 1 digital
<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 and 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 PNP type output, Maximum current that can switch on the output: 700 mA
<b>Internal Sensors</b>	NTC for temperature, battery voltage and external power supply	NTC for temperature, battery voltage and external power supply	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 (total)
<b>Record Interval</b>	1 s to 18 h	1 s to 18 h	1 second to 12 hours (recommended: 300 seconds)
<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/time, alarm, start button, digital input, software command or SMS
<b>Alarms</b>	8 Alarms (two per channel) Low and High	8 Alarms (two per channel) Low and High	10 alarms available (can activate digital output, send SMS and MQTT publication)
<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 interface, Mobile communication module (2G, LTE Cat M1, LTE NB1/2, SMS)
<b>Configuration Software</b>	NXperience Mobile for Android and iOS NXperience for Windows	NXperience Mobile for Android and iOS NXperience for Windows	NXperience (for desktops and notebooks – locally via USB or remotely via NOVUS Cloud)
<b>Communication with SCADA or Cloud system</b>		MQTT, Modbus TCP protocols and NOVUS Cloud	MQTT protocol (NOVUS Cloud or generic broker)
<b>Power Supply</b>	10-30 Vcc	10-30 Vcc	Voltage: 10Vdc to 30Vdc, Maximum Consumption: 300 mA, Typical Consumption: 20 mA, Built-in rechargeable battery
<b>Backup Battery</b>	4 AA alkaline piles Typical autonomy 2 years	4 AA alkaline piles Typical autonomy 2 years (without Wi-Fi)	Up to 80h
<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 60 °C (-4 to 140 °F) Using backup power: 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")