

Neximatic

Innovative Device Connectivity

Installation Guide Philips MX4x0, MX5x0 (RS232) GE Avance CS2 (Cable Assembly 90)



Warning

Each package contains specific materials for the installation in this room.

A label is affixed on this page and it has the information about this room.

Please review the label before installation.

Read the entire instruction guide before starting the installation.

Installation should be performed by an IT, a Bio Tech or a person with knowledge of IT and medical devices.

Some installation may require additional component from the medical device manufacturer.

If there is any question or if there is any unexpected issue, please stop immediately, revert any setting and contact support. Failure to do so may damage the Nexi and/or any medical device.

Package Contents

Item	Description
Nexi	The Nexi communicates with the medical devices and stream medical data to an HER. The Nexi is pre-configured for the medical devices for this room The Nexi is pre-configured for the networking setting for this facility The Nexi can be re-configured for other medical devices when it is connected to the Internet
Cable Assembly	This cable assembly is specific for the medical devices in this room DO NOT DISASSEMBLE THE CABLE ASSEMBLY
Power Supply	This power supply is compatible to the Nexi DO NOT USE OTHER POWER SUPPLY UNLESS ADVISED
Velcro Strips	Use to mount the Nexi
Optional Mount	The package may contain additional mount equipment
Optional QR Tag	Some implementation may include a QR Tag

Installation Procedure

Pre-installation

- Check label for this package to ensure it is for the corresponding room.
- Ensure any necessary tools are available.

Installation

- Nexi: Review the features and ports of the Nexi.
- Medical Devices: Identify the medical devices.
- Power and Mount: Find a suitable mount location and power source.
- Cabling: Connect the cable between medical devices and the Nexi.
- Configuration: Set the medical devices according to instruction.
- Optional QR Code: Affix the QR Code in the front for scanning.

Testing

- Different generations of the Nexis have different test procedure.
- Please following the Test Section for more information.

Post-installation management

- Use wire ties to secure the cable assembly and power cord with enough slack
- If the Nexi is equipped with a cord clip, clip the power cord through it.

Items required for installation

Please have the following ready for an installation

- Wire ties
- Scissors
- Labels
- Screw drivers (Philips)

Nexi: Nexi-N5



Nexi-N5 Specification	
Model	Nexi-N5
Operation Voltage	12V DC
Maximum current consumption	1.5A
Operation temperature	25C, in-door only
Operation humidity	5-95%
Interfaces	4 USB ports
	1 Ethernet port
Indicator	Power Internet Service Data Transmission Issue

Nexi Name is a globally unique number.

Nexi Name must be provided when contacting support.

Power Source and Mount Location (Anesthesia Machine)

The Nexi should use the power outlet available on the anesthesia machine

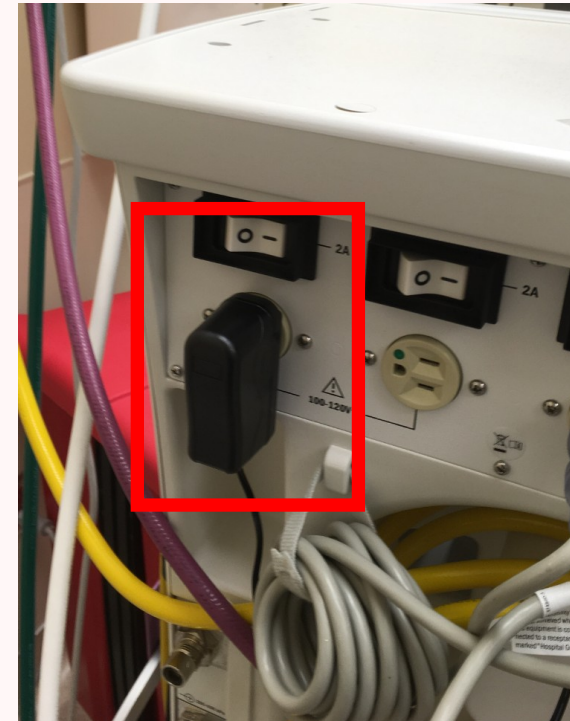
Assess the power cord and cabling to the medical devices to find a suitable mount location of the Nexi

- Location should provide enough slack for the power cord and the cabling
- Location should not obstruct any instrument
- Location should provide a clear view of the Nexi, its label and lights

Suggestion of a mount location

On top of the anesthesia machine

At the back of the anesthesia machine

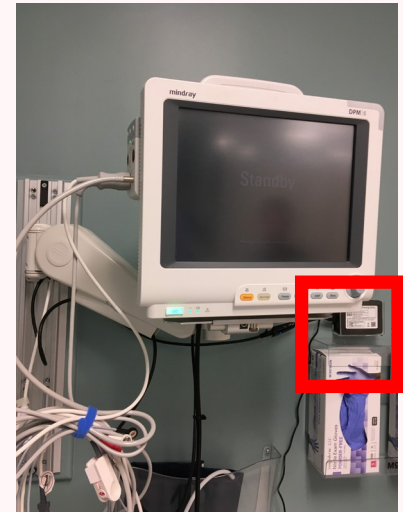


Power Source and Mount Location (Wall Mount)

The Nexi should use the nearest power outlet

The Nexi should be mounted on the wall using Velcro and the mount

- Location should provide enough slack for the power cord and the cabling
- Location should not obstruct any instrument
- Location should provide a clear view of the Nexi, its label and lights



Power Source and Mount Location (Wheeler)

A medical grade power outlet should be mounted on the wheeler

Both the Nexi and the medical device should be connected to the mounted power outlet

The Nexi should be mounted on the medical device

- Location should provide enough slack for the power cord and the cabling
- Location should not obstruct any instrument
- Location should provide a clear view of the Nexi, its label and lights



Medical Device: Philips MX4x0, MX5x0



The MX400/450/500/550 monitors have the same parts, controls and indicators.

Medical Device: GE Avance CS2



Cable: Cable Assembly 90



The cable assembly consists of a Dual USB-Serial Cable.

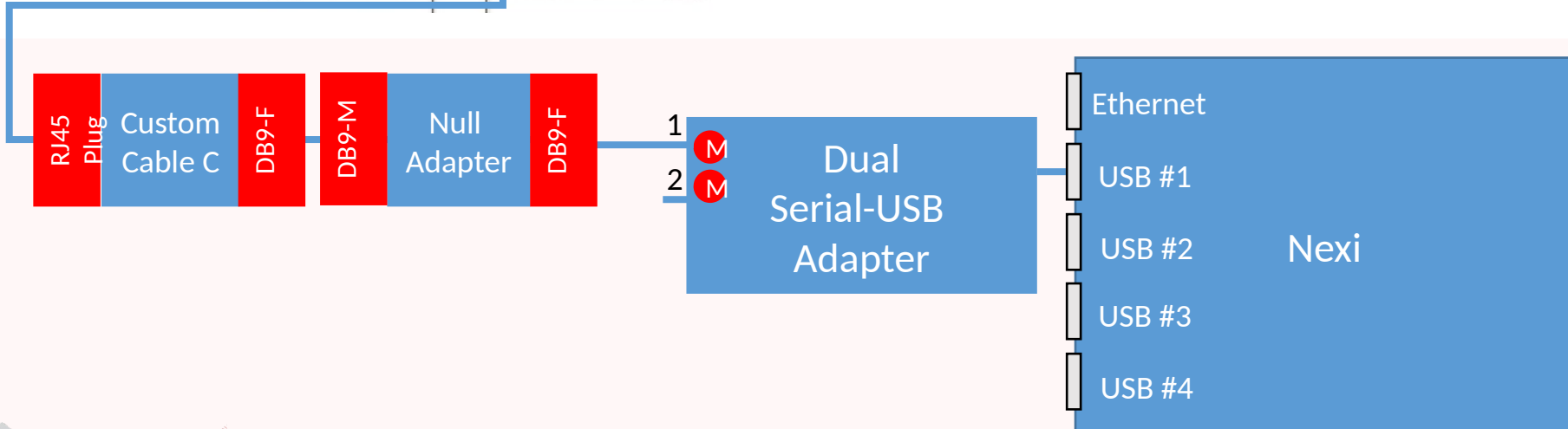
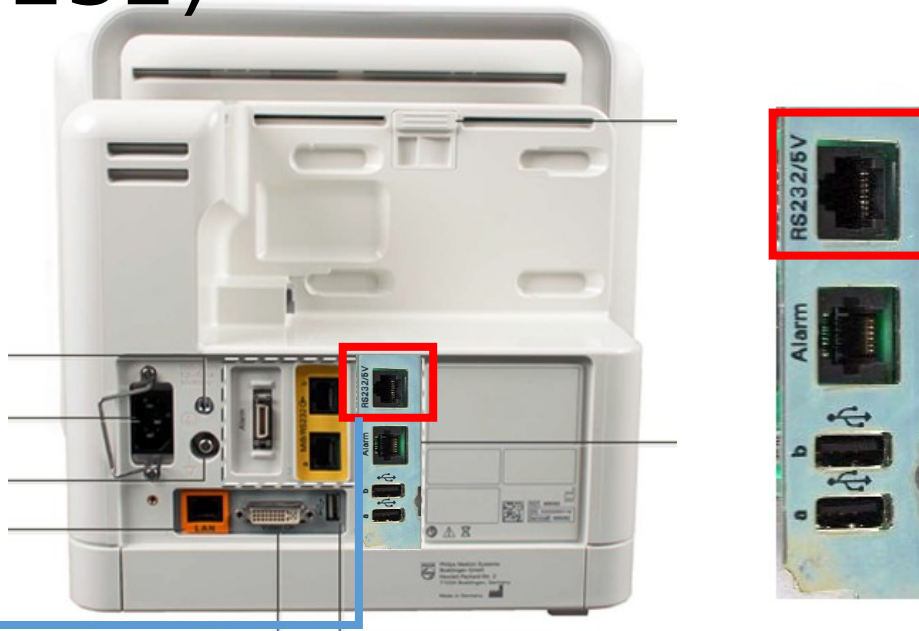
Each end of the Serial is numbered #1 and #2.

A Custom Cable C and an orange F/M Null adapter are attached to Serial #1.

A Custom Cable A is attached to Serial #2.

DO NOT DISASSEMBLE

Cabling: Philips MX4x0, MX5x0 (RS232)

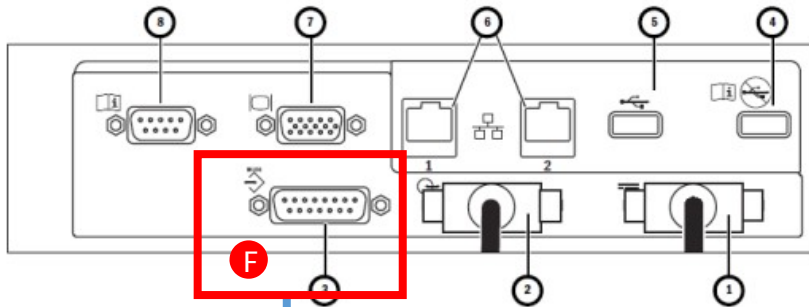


Cabling: GE AvanceCS2

2.5.1 Display Unit

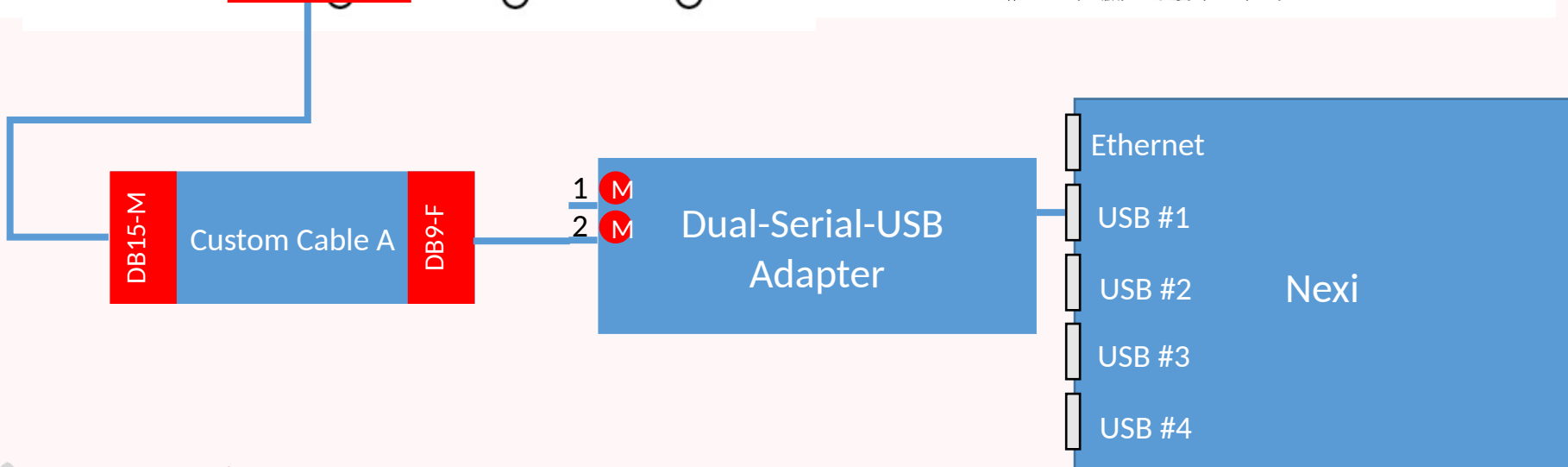
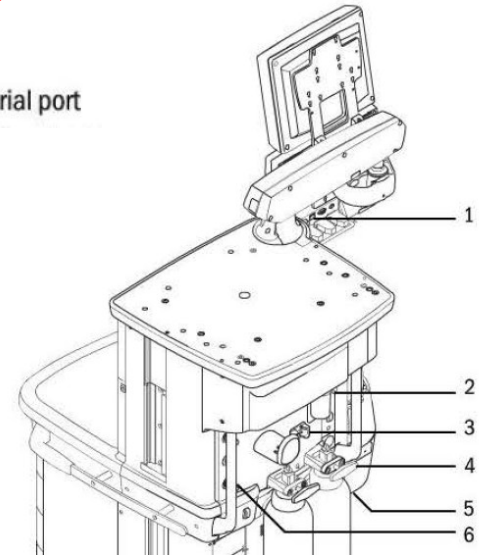
The DU accommodates the following connections:

- System Power Interface (1).
- System Signal Interface (2).
- Serial Port – standard RS-232 interface for external communication (3).
- USB port – standard USB 2.0 interface – System Software Download port (4).
- USB port – standard USB 2.0 interface (5).
- Network connection – Standard Ethernet port for network connectivity (6).
- VGA port – standard Video interface (7).
- Remote monitor On/Standby (8).



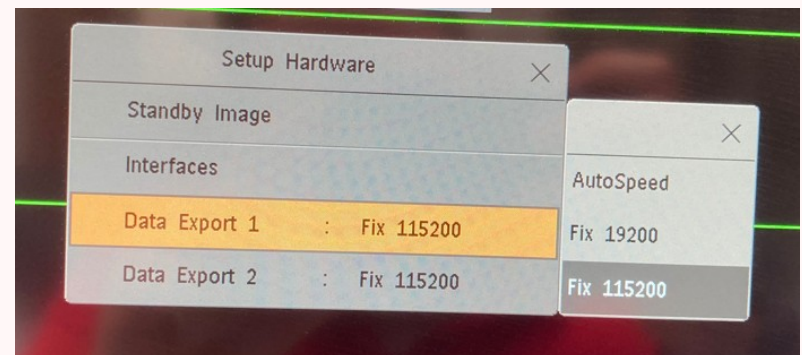
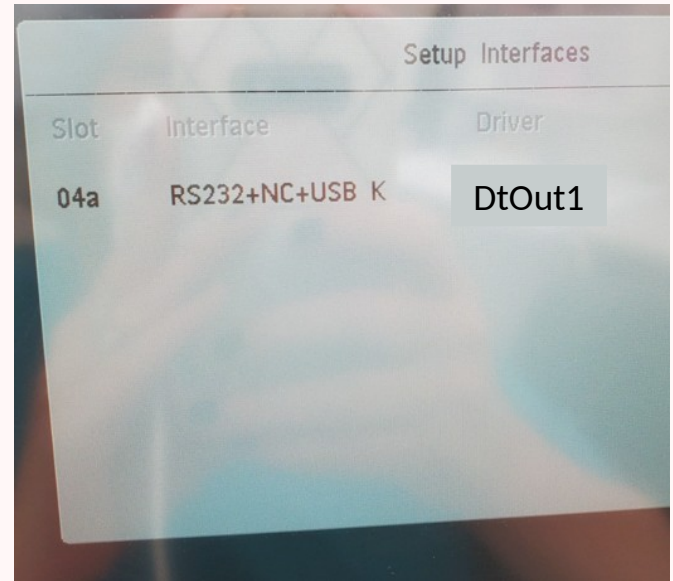
This port is on the back of the display unit.

1. Serial port



Configuration: Philips MX4x0, MX5x0 (RS232)

- Select Main Setup
- Select Operation Mode
- Select Service Mode and use 1345 as password
- Select Main Setup
- Select Hardware
- Select Setup Hardware
- Select Interfaces
- Select the line that has RS232
- Select DtOut1
- Select OK (monitor will reboot)
- Return to Setup Hardware
- Select Data Export 1 and set it to 115200



Information: Philips

- Monitor Mode: no password
- Configuration Mode: 71034
- Demo Mode: 14432
- Service Mode: 1345

Configuration: GE Avance CS2

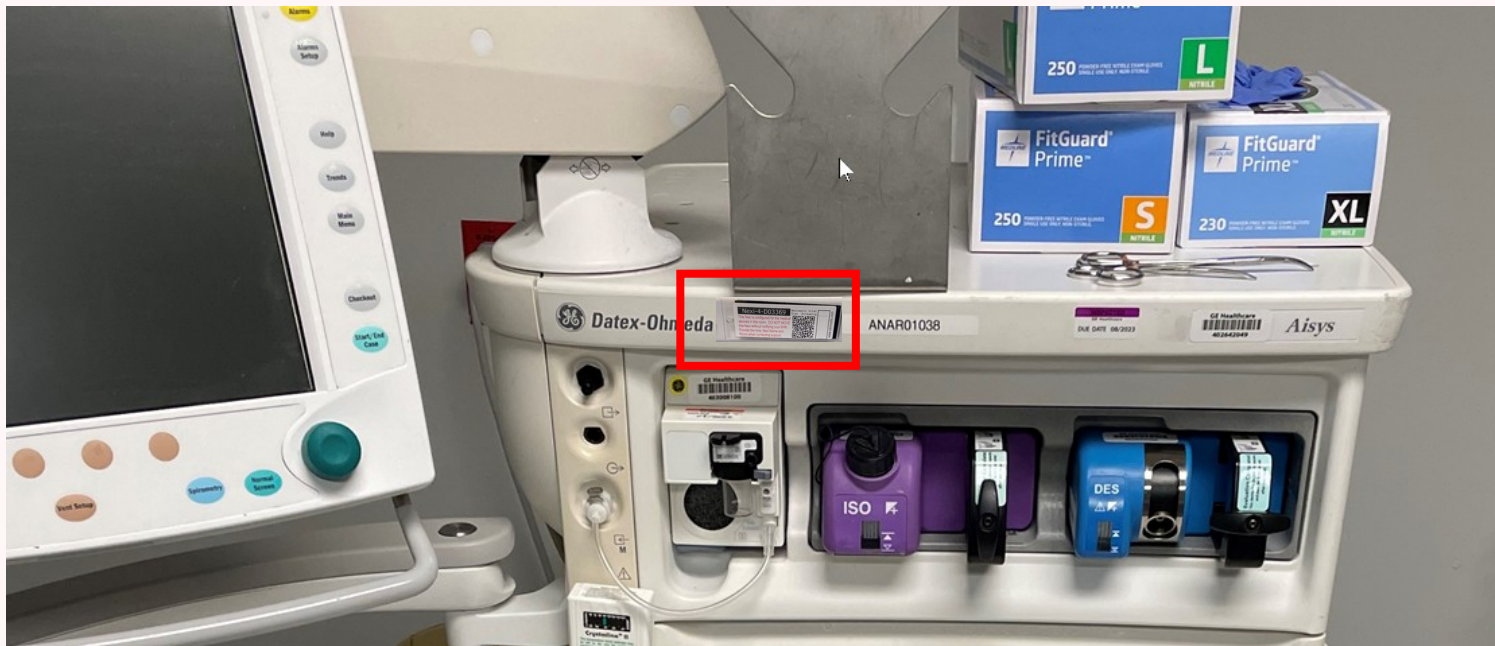
- None



Optional: QR Tag

If the package contains a QR Tag, affix it to a visible location on the medical devices. Users scan the QR Tag to pick up the vital sign data.

WARNING: The QR Tag has a Nexi Name, which must match the Nexi on the medical devices all the time. A mismatch would lead to pulling wrong data.



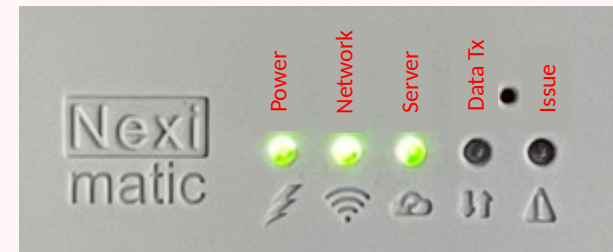
Testing: Nexi-5

- Post installation check

- Nexi is properly mounted
- Power connection to the Nexi
- Cable connection between the Nexi and medical devices
- Medical device settings if specified
- Network cable connection if using Ethernet
- All cables and cord are properly managed

- Observe

- Power light should be solid green.
- Network light should be solid green.
- Server light should be solid green.
- Data Transmission may blink blue.



Testing: Nexi-5

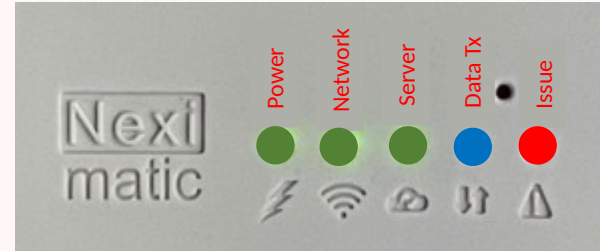
- Testing

- Turn on the medical devices
- Put a Pulse Ox sensor on you
- When measurements are on the medical devices, scan the QR code on the Nexi and follow the instruction to review the live vital sign data.

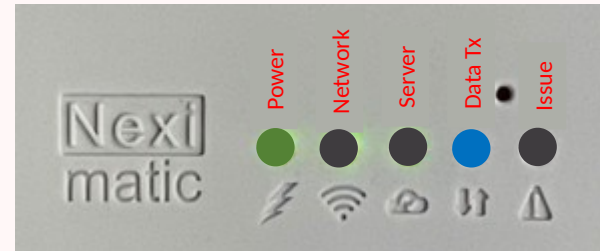


Information: Nexi-5

- Starting a reboot sequence.

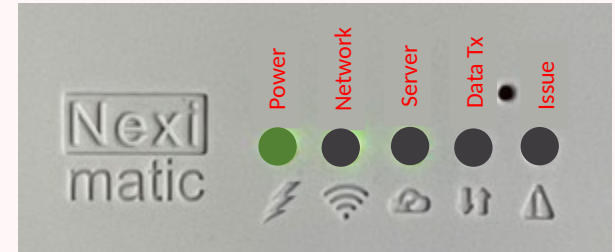


- During a reboot sequence.
- When the blue light goes off, operation begins.

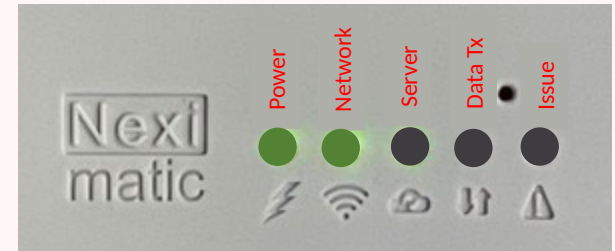


Information: Nexi-5

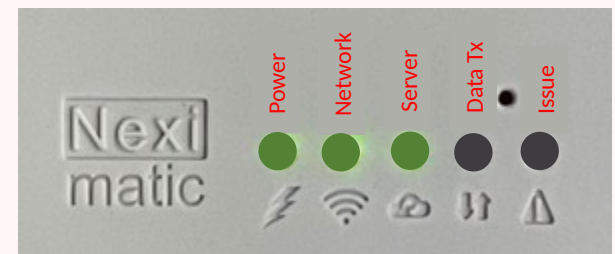
- Operation begins and Power light stays on.



- Regardless of WIFI or Ethernet, when there is a network connection, the Network light goes green.



- When the Nexi can reach its server, the Server light goes on green. This Server light has to be on.



Information: Nexi-5

- When there is any issue the Issue light goes on red. The Nexi would attempt a sequence of recovery. The recovery may involve a reboot.

