

Installation Guide
Nihon Kohden BSM 6xxxx
Drager Fabius
(Cable Assembly 78)

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-N6



Power, * USB and Ethernet

* Depending on the configuration, USB may be used for medical device interfacing.

Nexi-N6 Specification	
Model	Nexi-N6
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
Medical Device Interfaces	2 Serial interfaces 1 Ethernet interface
Indicator	Power Internet Service Data Transmission Issue

Medical Device Interfaces

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

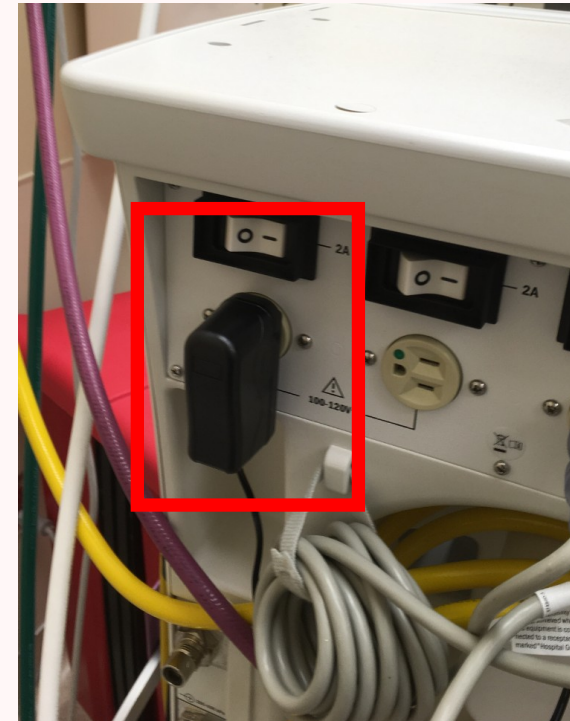
Assess the power cord and cabling to the medical devices to find a suitable mount location of the Nexi

- 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

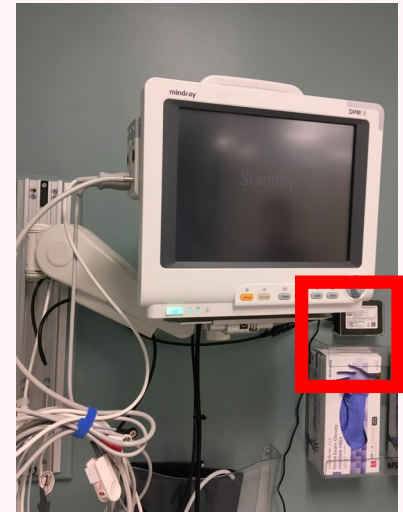


Power Source and Mount Location (Wall Mount)

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

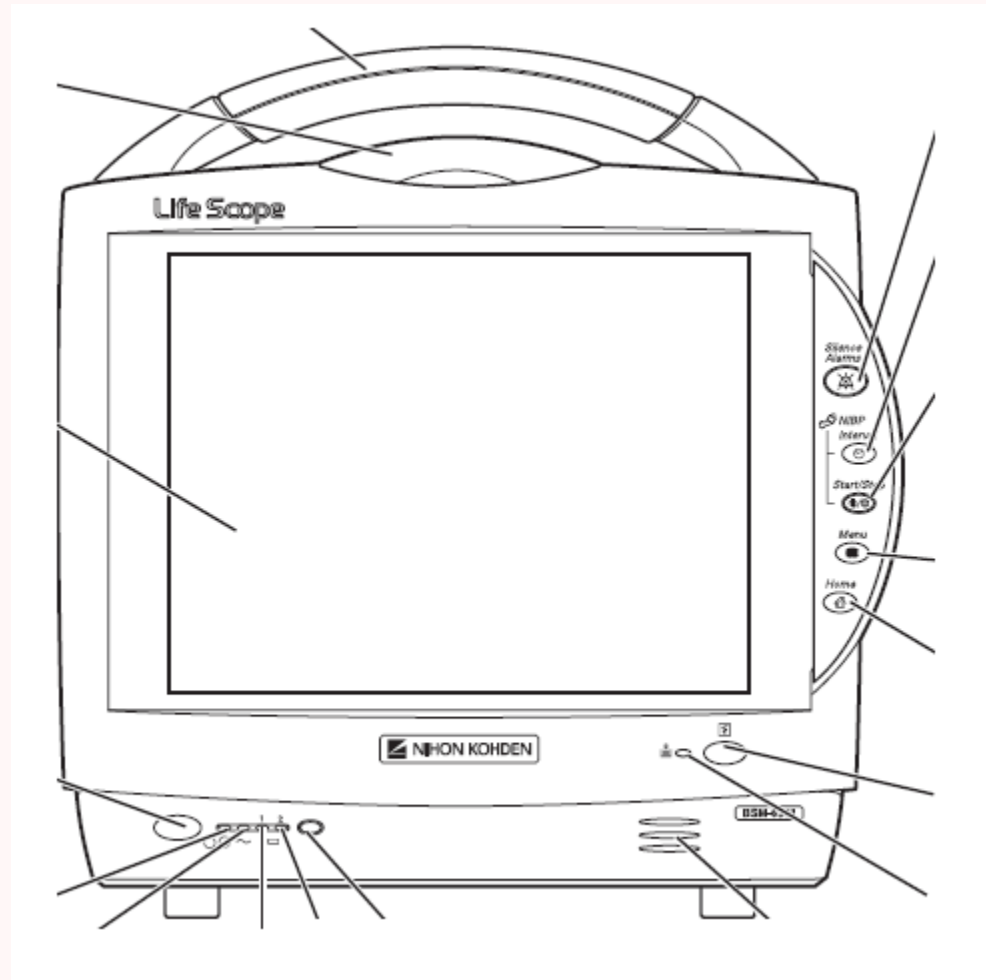
Both the Nexi and the medical device should be connected to the mounted power outlet

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



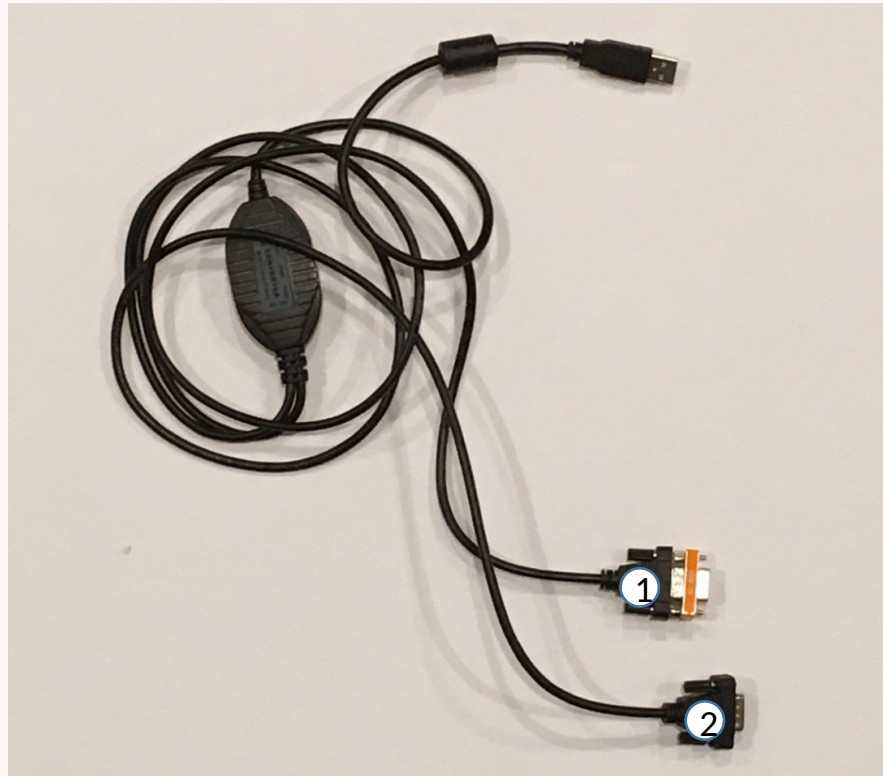
Medical Device: Nihon Kohden 6xxx



Medical Device: Dräger Fabius



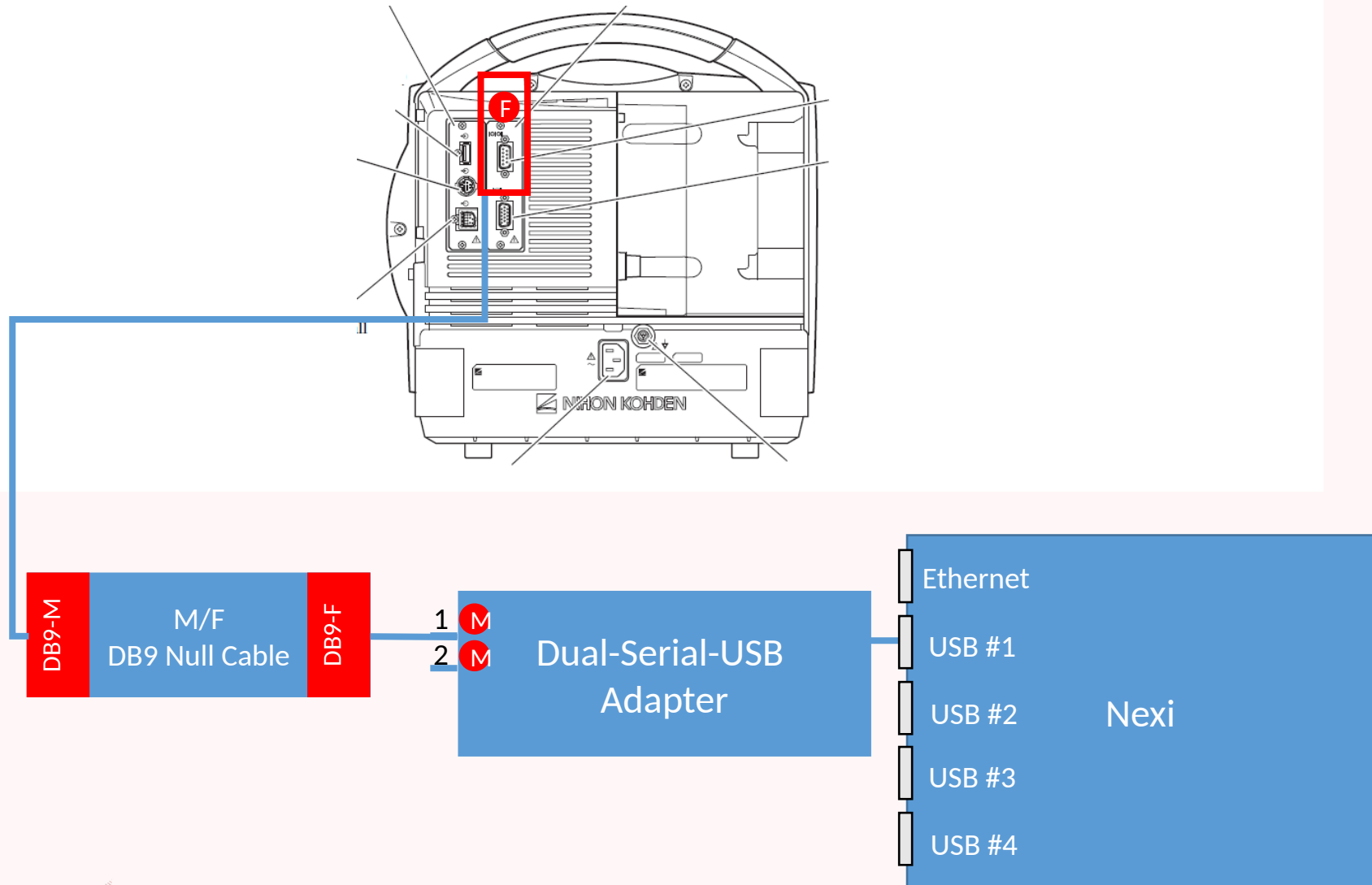
Cable: Cable Assembly 78



The cable assembly is a Dual-Serial USB Cable with two Serial ends: #1 and #2.
An orange F/M Null Adapter is attached to Serial #1.

DO NOT DISASSEMBLE.

Cabling: Nihon Kohden BSM6xxx

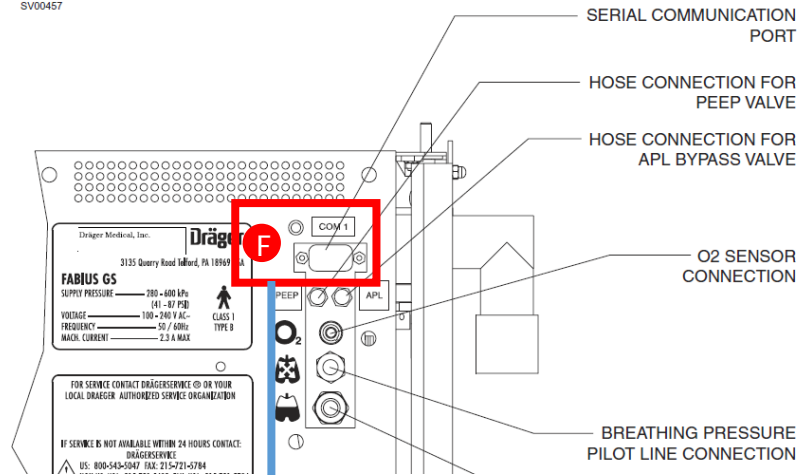


Cabling: Drager Fabius

FUNCTION DESCRIPTION (continued)

FABIUS GS

SV000457



There are some Fabius that have a Male port. In that case, please request a Null F/F adapter.

1 M
2 M

2-Serial-USB Adapter

Ethernet

USB #1

USB #2

USB #3

USB #4

Nexi

Configuration: Nihon Kohden BSM 6xxx

- Power off monitor
- Hold on and keep pressed on Silence and turn on Power monitor
- Go to System Configuration
- Use 1234 as password
- Go to PC and make sure the setting is as follow:
 - Baud Rate = 9600
 - Word Length = 8 bits
 - Parity = Odd
 - Stop Bit = 1
- Press Return to return to normal operation

The image shows a configuration screen with a blue background and four white-bordered boxes. Each box contains three radio buttons. The top-left box is labeled 'BAUD RATE' and has options 9600, 19200, and 38400. The top-right box is labeled 'PARITY' and has options NONE, EVEN, and ODD. The bottom-left box is labeled 'WORD LENGTH' and has options 7 bits and 8 bits. The bottom-right box is labeled 'STOP BIT' and has options 1 and 2. In each box, the first option (9600, NONE, 8 bits, and 1) is selected, indicated by a black dot in the center of the radio button.

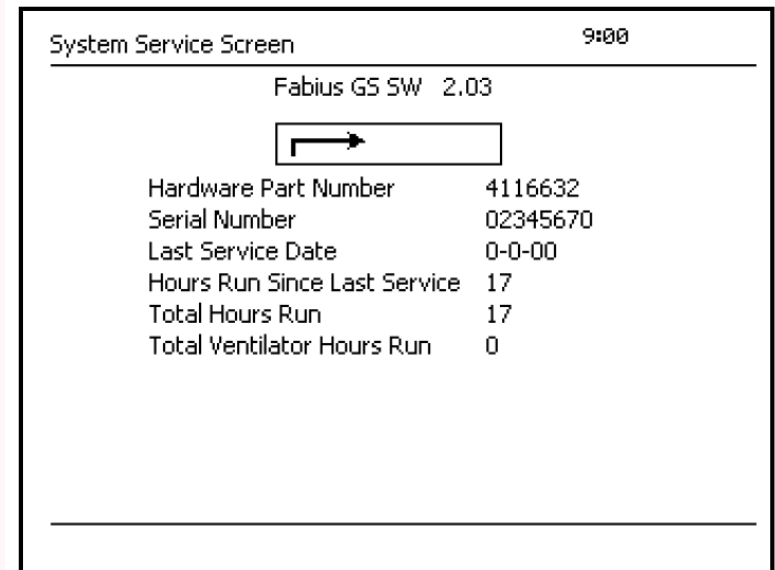
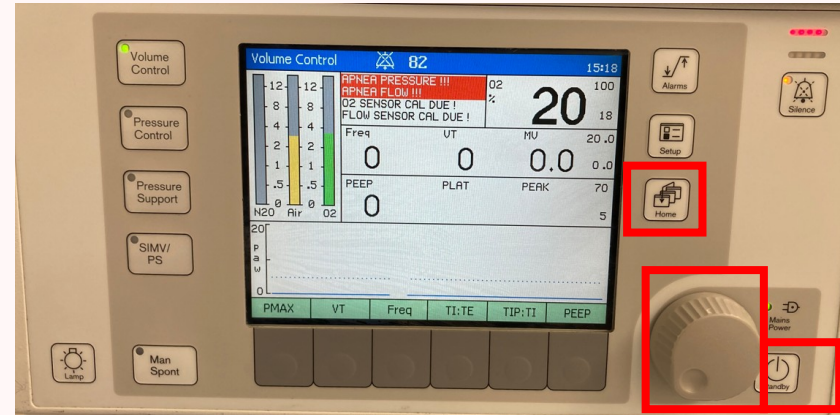
BAUD RATE	PARITY	WORD LENGTH	STOP BIT
☒ 9600	☐ NONE	☒ 8 bits	☒ 1
☐ 19200	☐ EVEN	☐ 7 bits	☐ 2
☐ 38400	☒ ODD		

Demo Mode: Nihon Kohden BSM 6xxx

- Power off monitor
- Hold on and keep pressed on Silence and turn on Power monitor
- Go to System Configuration
- Use 1234 as password
- Go to Other and set Simulation
- Go to Return and return to normal operation

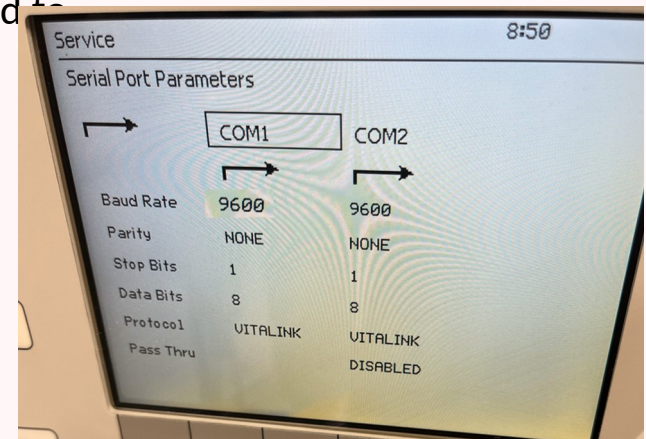
Configuration: Drager Fabius

- Enter the System Service
 - Press and hold  and  keys and press the rotary knob
- Note the HW version and SW version
 - Different version may have additional options



Configuration: Drager Fabius

- Go to Main Service Screen
 - Press the rotary knob
- Go to Serial Port
 - Turn the rotary knob to Serial Port and press the rotary knob
- Note which Com Port (1 or 2) the Neximatic cable is connected to
- Set that serial port to the following
 - Use the rotary knob to set the following
 - Baud Rate = 9600
 - Parity = None
 - Stop Bits = 1
 - Data Bits = 8
 - Protocol = VITALINK



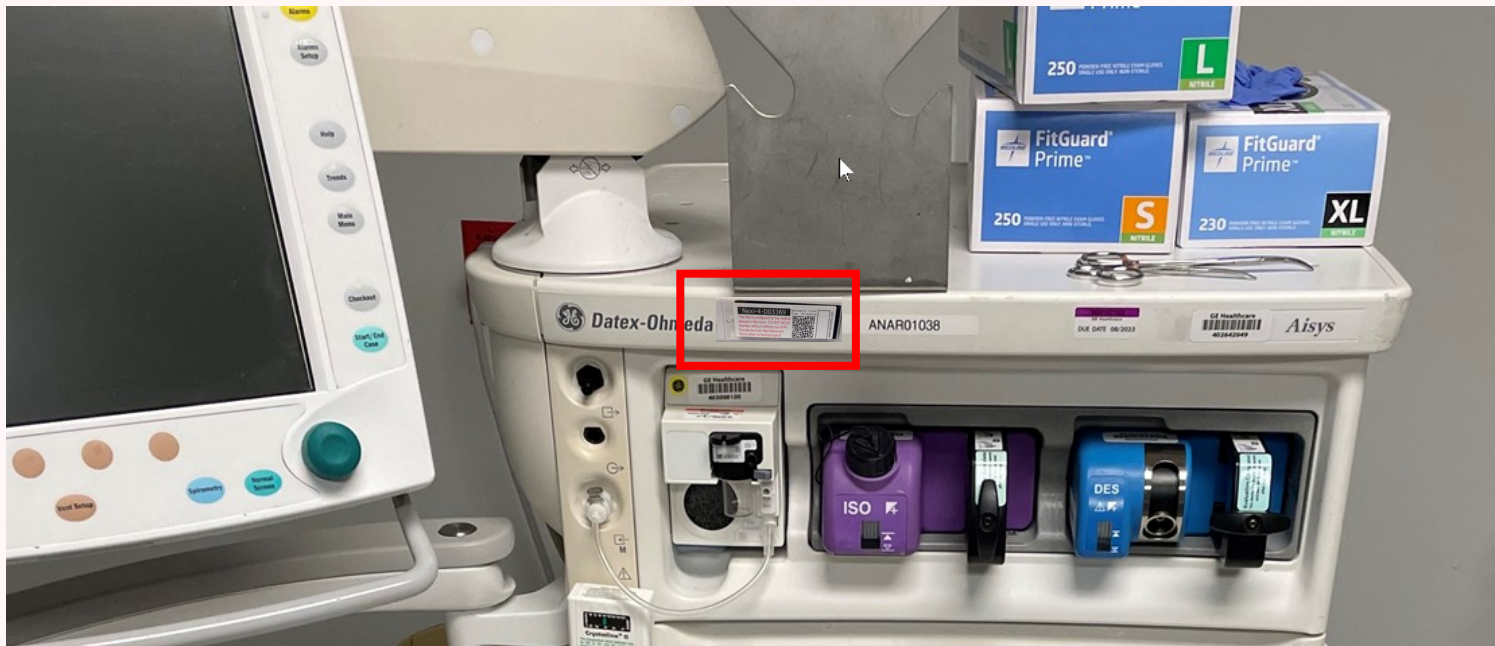
- For 3.37a firmware, Medibus and MedibusX are available

- Press  to return to the regular screen

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.



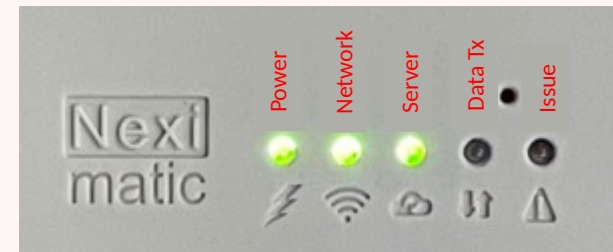
Testing: Nexi-6

- 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-6

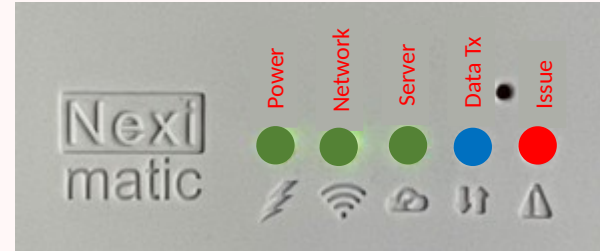
■ Testing

- 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.

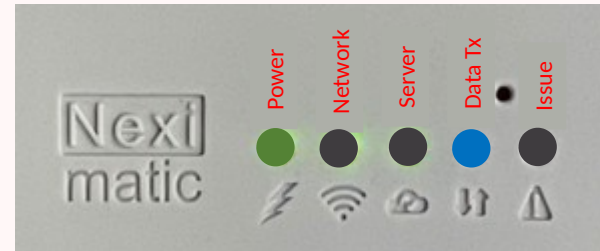


Information: Nexi-6

- Starting a reboot sequence.

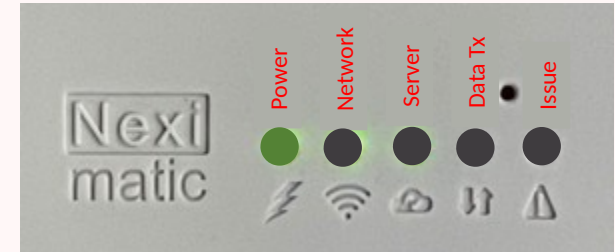


- During a reboot sequence.
- When the blue light goes off, operation begins.

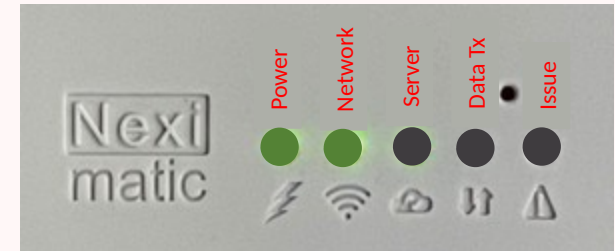


Information: Nexi-6

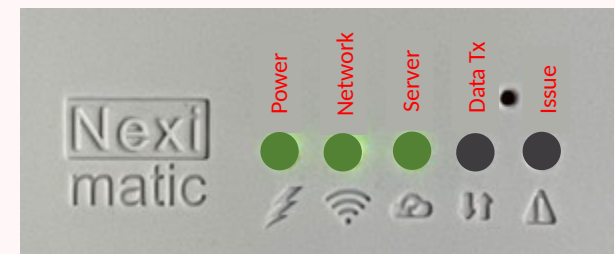
- Operation begins and Power light stays on.



- 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-6

- 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.

