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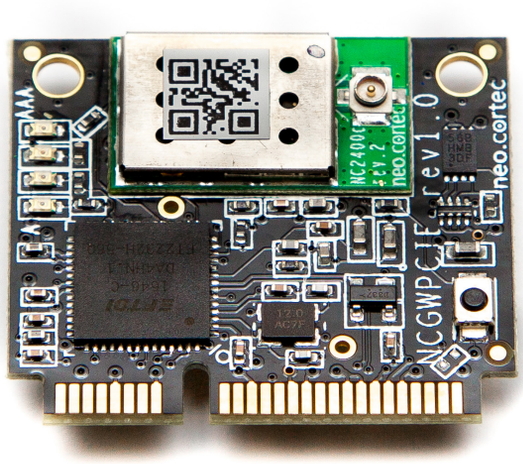
NeoCortec PCINCxxxx
miniPCIexpress - NCxxxx module series
Datasheet version 1.0



FEATURES:

- miniPCI express module incorporating the NeoMesh wireless mesh network modules:
  - NC1000-8
  - NC1000-9
  - NC2400
- Designed for easy integration with single board computers as well as industrials PC's
- Supporting the miniPCI express interface
- Compatible with the NeoCortec NeoGW Linux Open Source Gateway software, enabling flexible gateway design for all application areas

APPLICATIONS:

- Wireless Sensor Networks
- Automatic Meter Reading
- Advanced Metering Infrastructure
- Mobile Ad-Hoc Networks
- Home Control & Building Automation
- Industrial Automation
- Alarm and Security Systems

1. Electrical specifications

The Mini PCI-E card is incorporating the NeoMesh NCxxxx series of modules. All electrical and performance related specifications are identical to those specified in the respective datasheets of the modules. In addition, the card is configured to use the Mini PCI-E bus for interfacing with the PC. This is done using USB2.0 with 2 UART end points.

2. User guide

The Mini PCI-E card plugs into any system with a Mini PCI-E slot with support for the half size form factor. In addition the host system shall support USB connection through the Mini PCI-E interface. The card uses a dual UART to USB converter from FTDI, which is supported in most operating systems natively. Refer to the website of FTDI for drivers if not already supported in the operating system used.

2.1 Buttons

The Mini PCI-E card has one push button which is a RESET button. The button is connected directly to the RESET input of the NCxxxx module. There is the option to install a 0 Ohm resister to connect the RESET signal to the fundamental reset in the Mini PCI-E connector.
The RESET button is connected directly to the NeoMesh module and will only reset the NeoMesh module.

3. Dimensions

Item	Dimension	Tolerance	Remark
Width	30mm	±0.2mm	
Length	27mm	±0.2mm	
Height	3.7mm	±0.25mm	Without U.FL plug

4. Ordering information

Model	Temp range	Part number	Remark
PCINC2400	-40°C -85°C	PCINC2400C	Mini PCI-E Card with NC2400 module targeting the 2.4GHz frequency band
PCINC1000-8	-40°C -85°C	PCINC1000C-8	Mini PCI-E Card with NC1000-8 module targeting the 868MHz frequency band
PCINC1000-9	-40°C -85°C	PCINC1000C-9	Mini PCI-E Card with NC1000-9 module targeting the 915MHz frequency band

5. Package information

Available in single piece bags. Please contact NeoCortec for further details.

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