

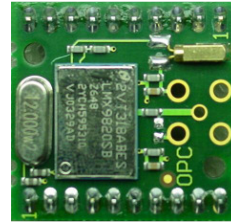
Technical Description

OPC1600 (BlueNiceCom 2)

BlueNiceCom 2

Bluetooth module with UART Interface

- Bluetooth Class 2 module
- Serial Port Profile (SPP)
- UART Interface
- Supports GAP & SDP x



With the BlueNiceCom 2 presents AMBER wireless a Bluetooth module based on the LMX9820A. This means a compact and inexpensive solution for a serial data link with Bluetooth.

The BlueNiceCom 2 contains the SPP (Serial Port Profile) and communicate with other Bluetooth modules supporting SPP. Through the serial UART interface the BlueNiceCom2 is connected directly to the processor or the end device.

The external processor or host PC can manage all other available application profiles on the SPP, for example Dial up Networking Profile, Fax Profile, LAN Access Profile.

For optimising the range the module contains optional a connector, for example a SMA-Jack for connecting a external antenna.

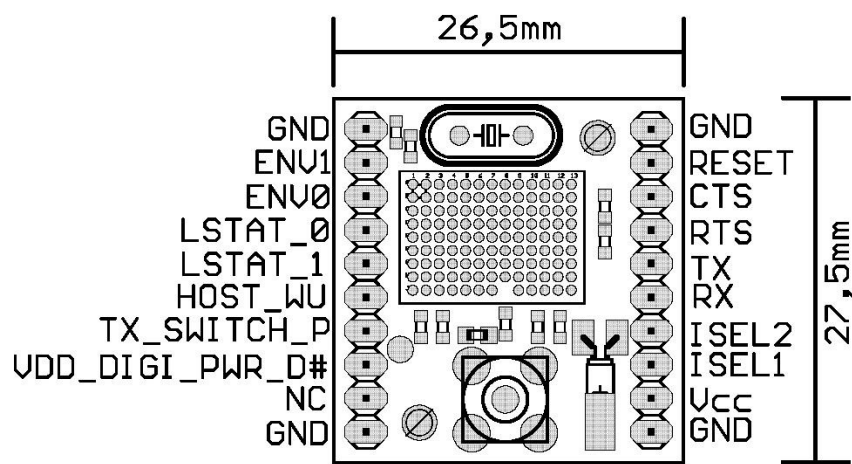
The control and setting is done by the host processor. The module is simply to integrate in the application. Depending on the application and the pre-settings the BlueNiceCom 2 can work as stand alone slave module and directly be addressed by a master module.

For a desired communication as cable replacement or point to multipoint (piconet) the setting through a processor is necessary to drive the LMX9820A. Up to five slaves can be organised by one master.

Specifications

Supply Voltage	2,85V to 3,6V
Supply current	typ. 65 mA
Outputpower	typ. 2 dBm
Sensitivity	typ. -77dBm
Data rate UART:	9,6 kbps to 115kbps
Interface	according to LMX9820
Temp. range	-25° to +85°
Antenna connection	SMA footprint
Dimensions	27,5 x 26,5 mm
Miscellaneous	specifications meet the LMX9820A Datasheet
Identifier	OPC1600

Connection and Dimensions:



Corresponding offer:

Evaluation kit:

BlueNiceCom 2 module with mounted, 2,4GHz Antenna, batteries for supply voltage, USB-Bluetooth adapter as remote station - for immediately realising a Bluetooth link - documentation, software and the Evaluation board containing power supply, RS232 Sub-D-9 connector, LED signalling and access to all signals

Software-Tools:

C-Tools for driving the BlueNiceCom 2 can be provided

Accessories:

SMA connector fitting the footprint
2,4 GHz antenna: OPC1926