

Product Brief – JN-AC001

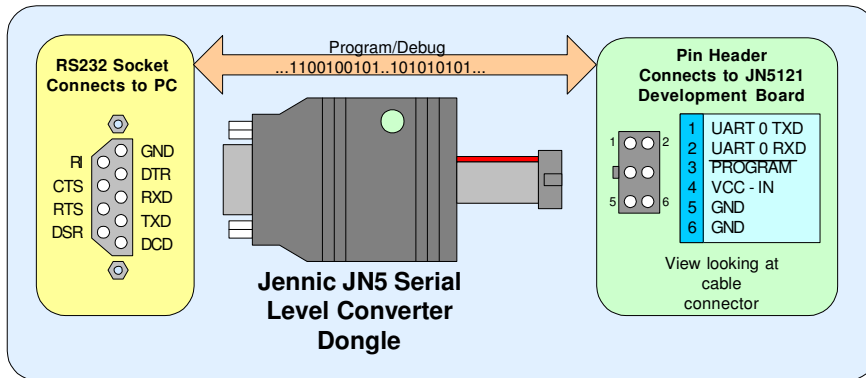
JN5 Serial Level Converter Dongle

Overview

Jennic's JN5 Serial Level Converter Dongle is an interface accessory that enables the JN5121 controller and sensor boards from Jennic's evaluation kits to be connected to equipment with an RS232 interface, for example, a PC where the software development kit is installed.

The converter dongle provides two connection ports; a 9-way D-type connector socket interfaces directly to the standard RS232 serial port of a PC and a 6-way pin header interfaces to the programming port of the JN5121 development board. Once the dongle is connected between the PC and the development board, it is then possible to download application code and to perform debugging. An LED indicator visible on the outer case of the dongle acts as a visual aid to indicate when programming operations are taking place.

Diagram



Features:

- Connects a JN5121 development board to a PC
- 9-way D-type connector provides direct interface to any RS232 port
- 6-way pin header provides direct interface to JN5121 development hardware
- Pin header is keyed and strain-relieved, this prevents erroneous connections and provides durability
- LED indicator shows programming activity
- Converts 7 volts RS232 to chip UART interface levels

Evaluation Kits

Jennic provides a range of evaluation kits to enable the user to quickly, easily and effectively develop applications for wireless sensor networks. A network starter kit (JN5121-EK003) with three sensor boards provides a low cost entry route, whilst a full evaluation kit (JN5121-EK000) allows development of applications using Mesh network stacks and includes a controller board and four sensor boards. Both include a JN5 serial level converter dongle to connect to the PC-based development platform.

A software development kit includes a complete suite of tools for rapid application development and debug, including C compiler, assembler, debugger and flash programmer. The tool chain is based upon the mature GNU tools and runs on either Linux or Windows platforms. A series of libraries provide developers with access to the peripheral functions of the JN5121 wireless microcontroller through a simple application programming interface.

As standard, an IEEE802.15.4 compliant protocol stack library is provided, this is suitable for point-to-point, star and tree networks. Libraries are also available for mesh network stacks such as ZigBee and IPv6.