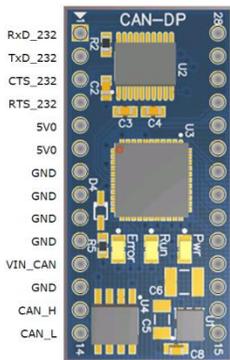


Congratulations on your purchase of the Connective Peripherals CAN-DP RS232/TTL to CANbus adapter. Getting started is quick and easy:

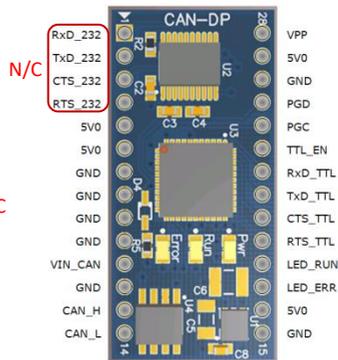
General Installation

- Detailed installation instructions, port information and mechanical details are in the CAN-DP datasheet. This can be downloaded from: <http://www.connectiveperipherals.com>.
- The CAN-DP module is intended for use with a socket or breadboard-type mount. At minimum, the CANbus, power, ground and UART port will need connected. While the CAN-DP provides options for both RS232 and logic levels, only one may be used at a given time. The TTL_EN input selects which interface is used. Note the “N/C” sections in circled in red below.
- Complete CAN and UART connection details are in the CAN-DP datasheet.



RS232 Connection

(TTL_EN connected to GND or floating)



Logic-Level (TTL) Connection

(TTL_EN connected to 5V0)

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CAN Firmware

- The CAN-DP comes with Connective Peripherals CANbus firmware pre-loaded from the factory. From time-to-time, Connective Peripherals will update the firmware and make it available on the web. Updated firmware can be obtained from: <http://www.connectiveperipherals.com>. Included with the firmware download will be a copy of EASYBoot, a utility that programs the firmware into the CAN-DP.
- When updating with newly downloaded firmware, it is first necessary to place the CAN-DP adapter in Boot-loader mode:
 - Start a terminal program, such as HyperTerminal. Connect to the COM port and issue the “B” command:
 - B<CR>
 - The CAN-DP will respond with:
 - Entering Boot Mode
Boot:>
 - Close the COM port connection.
 - Start EASYBoot and follow the on-screen instructions to update or verify the firmware.

CANbus is commonly connected through a DE-9P connector that conforms to the Can in Automation (CiA) DS102-1 specification. If your system uses this style of connector, you can connect the module pins to the DE-9P connector as follows:

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DE-9P Pin	Function	CAN-DP pin
1	No Connect	
2	CAN_L = CANbus Low Side	14
3	GND = Signal Ground	7, 8, 9, 10, 12, 15, 23
4	No Connect	
5	GND = Signal Ground	7, 8, 9, 10, 12, 15, 23
6	GND = Signal Ground	7, 8, 9, 10, 12, 15, 23
7	CAN_H = CANbus High Side	13
8	No Connect	
9	External Power (+6VDC to +15VDC @ 150mA max, 40mA typical)	11 – only if power is supplied by the DE-9P connector, otherwise connect the CAN-DP pin 11 to an external power source.

Twisted Pair cabling and termination are required for proper CAN operation. See the CAN-DP datasheet for connection and termination details.

Revision History:

Version 1.0	2012-07-10	Initial release
Version 1.1	2019-03-25	Re-branding to reflect the migration of the product from EasySync to Connective Peripherals name (changed logo, copyright, internal hyperlinks)

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