



MOD-DEV-100 Rev 1.08 Errata

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1. Introduction

This document contains errata information for the NetBurner MOD-DEV-100 development/carrier board. The MOD-DEV-100 is used in development kit with the following modules: Mod5234, Mod5270, Mod5272 and Mod5282. The peripheral features of each module vary, therefore some functions on the MOD-DEV-100 do not apply to every development kit. For example, the Mod5282 has analog-to-digital capability, and can make use of the passive filter locations on the MOD-DEV-100.

2. CAN Header J15

The silkscreen labels for CANH and CANL are reversed.

3. Use With the Mod5234-100IR

The Mod5234-100IR has an ETPU peripheral and corresponding signals that require the following considerations.

3.1 ETPU Channel 8 Connected to Ground

The MOD-DEV-100 grounds J2 pin 14, which is a ground pin on all modules except the Mod5234. The result is that ETPU channel 8 will be connected to digital ground.

3.2 Analog Reference Voltage Must Be Disabled

The Mod5234 is not 5V tolerant. The 5V reference used for the Mod5282 must be disabled by removing jumper JP9.

3.3 Jumpers Required for CAN Operation

Revision 1.08 of the MOD-DEV-100 carrier board has the inputs to the CAN transceiver routed for the MOD5282, which does not have the same CAN pin locations as the MOD5234. A selectable jumper will be added in the next revision to handle this situation, but there is a work-around that can be made to the 1.08 development board.

The work-around involves both hardware and software. The J1 and j2 connector designators on the module and MOD-DEV-100 the same, so the instructions must be read carefully.

Software:

- The following software suggestions are implemented in the CAN to Serial example installed with your development kit software. It is located in the\burn\examples\MOD5234\CANSerial directory.
- **MOD-DEV-100:** The pins routed to the CAN transceiver, J2[41](RX) and J2[44](TX) are first set to HIZ. This can be done with the Pins Class.
- **Mod5234:** The desired multiplexed CAN signals are then initialized: either J2[39](RX) and J2[42](TX), or J2[22](TX) and J2[21](RX).

Hardware:

- **MOD-DEV-100:** Two jumper wires must be installed to connect J2[41] and J2[44] on the MOD-DEV-100 to the desired CAN TX/RX signals you want to use on the Mod5234. An easy place to add the jumpers are the J2_C and J2_H connectors adjacent to J2.

If the Mod5234 J2[21]/[22] pair is chosen, then JP8 will also need to be removed to disconnect the UART1 RX from the RS-232 transceiver. If the Mod5234 J2[39]/[42] pair is chosen, then JP12 will need to be removed to disconnect the I2C pull up resistors.