

## Change Notification for MSD40NBT

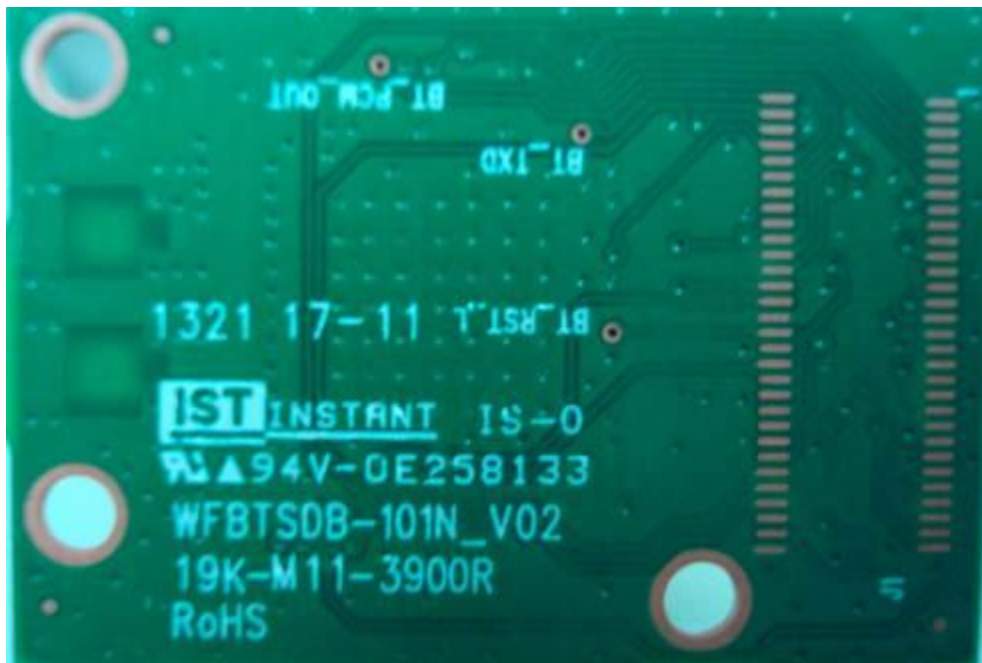
December 3, 2013

To Our Valued Customers:

A limited quantity of the MSD40NBT, Rev 11, have printed circuit boards that were not manufactured correctly. The faulty printed circuit boards are labeled on the back with the manufacturers part number 19K-M11-3900R. (See image below) These boards have been shipping in limited quantity since July 2013. The signals BT\_LED\_ACTIVE (J1 Pin 11) and BT\_HOST\_WAKE (J1 Pin 7) are shorted to the 3.3 volt rail on the printed circuit board. These internal shorts will cause excessive current draw in the cases outlined below.

When BT Sleepmode is enabled and BT\_HOST\_WAKE is low, there is a 32mA increase in current consumption. Similarly, when the BT LED functionality is enabled and BT\_LED\_ACTIVE there is a 15mA increase in current consumption. These increases only occur if either BT Sleepmode or the BT LED is being actively toggled in software. By default, the Summit Client Utility (SCU) and Laird Connection Manager (LCM) software do not modify the states of these pins.

	Sleep On & Host Wake Triggered	Stack On, Sleep Off, BT_LED_ACTIVE, Off	Stack On, Sleep Off, BT_LED_ACTIVE Off	Sleep On & Sleeping, BT_LED_ACTIVE On	Sleep On & Sleeping, BT_LED_ACTIVE Off
Good Radio	57	60	60	40	40
Bad Radio 19K-M11-3900R	57	59	75	72	87



Laird has implemented quality procedures, including a new Design Rule Check (DRC) to avoid similar problems in the future. In addition, Laird has redesigned the MSD40NBT module to correct the issues with these output pins. MSD40NBT Rev 12 will correct this problem.

If you have any questions please contact your local Laird sales manager or contact the Laird support team at [wireless.support@lairdtech.com](mailto:wireless.support@lairdtech.com)

We apologize for any inconvenience that this may cause you and will be happy to work with you to address any issues you may have. If you have any questions or comments, please contact your normal sales representative or one of our regional contact numbers below.

Sincerely,

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