

Product Change Notification

PCN #: 5C-2018 DATE: 10th May 2018

1 PRODUCTS AFFECTED

Laird Part Number	Description
BL652-SA-01	Bluetooth v5 Module + NFC (Integrated Antenna)
BL652-SC-01	Bluetooth v5 Module + NFC (External Antenna)
BL652-SA-01-T/R	Bluetooth v5 Module + NFC (Integrated Antenna) – Tape & Reel
BL652-SC-01-T/R	Bluetooth v5 Module + NFC (External Antenna) – Tape & Reel
DVK-BL652-SA-01	Development Kit - Bluetooth v5 Module + NFC (Integrated Antenna)
DVK-BL652-SC-01	Development Kit - Bluetooth v5 Module + NFC (External Antenna)

2 DESCRIPTION OF CHANGES

The BL652 Series of modules and associated development kits utilise the Nordic Semiconductor nRF52832-QFAA silicon. Starting from the **Build Code 1820** listed on each module's individual product label, Laird will be utilising the new E00 revision of the Nordic nRF52832-QFAA silicon inside the module.

There is no Form, Fit, Function, Quality or Reliability change in this PCN.



3 REASON FOR CHANGE

The BL652 Series of modules and associated development kits utilise the Nordic Semiconductor nRF52832-QFAA silicon. Nordic have recently announced via their 'Information Notice' programme (Notice no: IN-105, rev 1.0) that they are updating their Device version / Build Code from B00 to E00.

The Information Notice states the following:

New revision of the IC with the following key changes.		
Fixes of anomalies The new IC revision includes fixes for the following anomalies reported in nRF52832 Rev 1 Errata v1.6.		
 #102 RADIO: PAYLOAD/END events delayed or not triggered after ADDRESS #106 RADIO: Higher CRC error rates for some access addresses #107 RADIO: Immediate address match for access addresses containing MSBs 0x00 		
nRF52832 Rev 2 will have its own Errata, nRF52832 Rev 2 Errata v1.0, which includes an updated list of anomalies.		
In order to be drop-in compatible with current B00 / B10 build codes, the fix introduced is opt-in.		
Impact: Does the change affect product:		
1. Form		
2. Fit ⊠ No ☐ Yes – describe:		
3. Function ☐ Yes – describe:		
 Quality or Reliability No		
Classification of change Minor Major		
Reason for change:		
Fixed anomalies in affected devices.		
Consequences of change:		
Hardware		
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The new device versions are drop-in compatible with the current versions.		
Software:		
Software:		
Software: The new device versions are software compatible with the current revision, but note the following: For the fix of anomalies to take effect, re-compilation with MDK version 8.15.1 and later is necessary It is also possible to manually enable the fix as described in nRF52832 Rev 2 Errata v1.0x, #182 Note that SoftDevice S132 versions 4.0.2 until version 5.x have workarounds for the #102, #106 and #107 anomalies implemented.		



4 ANTICIPATED IMPACT OF THE CHANGE

None

5 METHOD OF IDENTIFYING THE CHANGED PRODUCT

The change can be identified by reviewing the **Build Code** number that is present on the individual module, reel label and carton label. The images below identify where this **Build Code** is located on each of those labels.

A Build Code that starts with **1820**, and all subsequent incremental numbers, indicates that the nRF5283-QFAA-E00 silicon is utilised.

Label examples shown are for the -SA versions, all -SC versions follow the same format.

5.1 Module Label

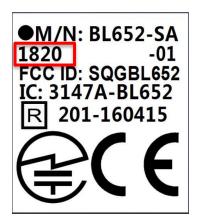


Figure 1: Module label

5.2 Reel Label

M/N: BL652-SA-01-T/R QTY: 1000PCS DateCode: 1820

Figure 2: Reel label



5.3 Carton Label

Laird Technologies

Model Name:BL652-SA-01-T/R

Date code:1820 Q`TY:5000PCS

C/No: 1 N.W.: 6.0Kgs G.W.: 6.6Kgs

Made in China

Figure 3: Master carton package label

6 FACTORY EFFECTIVITY DATE

This change has been implemented as a running change into Laird manufacturing of the BL652 Series modules. Production builds utilizing the new silicon revision will start from May 15th 2016 for BL652-SA parts and June 10th for BL652-SC parts. It is envisaged it will take some months for these modules to proliferate out into the global distribution channels.

7 CONTACT INFORMATION:

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