AND9345/D

© Semiconductor Components Industries, LLC, 2016

profiles do not require testing.
NOTE: ON Semiconductor has not listed any adoptable profile, so this test was not completed.
NOTE: You will need to provide a power supply connection for all samples, as a battery cannot support the current consumption in Test Mode for the duration of the test.

4. Create a new product listing. You will need to sign a Declaration of Compliance (DoC). Once the qualification process is done, your device is officially Bluetooth compliant. You may display the Bluetooth logo on your product.

Putting the nRF51822 Radio IC into Test Mode

In order to put the radio IC into Test Mode, you will need to flash the Test Mode firmware onto the Ezairo 7150 SL hybrid. For detailed instructions, refer to Section 4.3 Downloading Firmware to the Radio on the BTE Hearing Aid in the Ezairo 7150 SL BTE Hearing Aid Reference Design User Manual.

NOTE: You will need to flash the device with the Hybrid_DTM.hex provided instead of the firmware file (Ezairo7150SL_HearingAid_Sample.hex file) described in the Flashing the Radio Firmware section.

Emulating a UART Interface

In the Ezairo 7150 SL BTE reference design, the UART interface of Ezairo 7150 SL is not exposed, so you will need to use two DIO ports to pass through the UART interface. Ezairo 7150 SL sample code for the UART pass−through is provided in the Ezairo_7150_SL_UART_samplcode.zip file. Open the zip file in the Integrated Development Environment (IDE) provided in the Ezairo 7100 Evaluation and Development Kit (EDK).

In the default setting in *app.cfi*, **DIO6** and **DIO8** are set as **UART**:

```
inte16n16sin
```

Further Reading

Bluetooth qualification and certification test reports for the Ezairo 7150 SL BTE hearing aid reference design are available on request as reference. Please contact your account manager or sales representative for more information.

For more information on the reference design, please refer to the following documents included in the Ezairo 7150 SL Reference Design Hardware Package:

- Ezairo 7150 SL BTE Hearing Aid Reference Design User Manual
- Ezairo 7150 SL Remote Microphone Reference Design User Manual
- Ezairo 7150 SL Hybrid Demonstrator Board User's Guide

Bluetooth is a registered trademark of Bluetooth SIG.
EZAIRO is a registered trademark of Semiconductor Components Industries, LLC (SCILLC) or its subsidiaries in the United States and/or other countries.

ON Semiconductor and the ON are registered trademarks of Semiconductor Components Industries, LLC (SCILLC) or its subsidiaries in the United States and/or other countries. SCILLC owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of SCILLC's product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent−Marking.pdf. SCILLC reserves the right to make changes without further notice to any products herein. SCILLC makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does SCILLC assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. "Typical" parameters which may be provided in SCILLC data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. SCILLC does not convey any license under its patent rights nor the rights of others. SCILLC products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the SCILLC product could create a situation where personal injury or death may occur. Should Buyer purchase or use SCILLC products for any such unintended or unauthorized application, Buyer shall indemnify and hold SCILLC and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that SCILLC was negligent regarding the design or manufacture of the part. SCILLC is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.

PUBLICATION ORDERING INFORMATION

LITERATURE FULFILLMENT:
Literature Distribution Center for ON Semiconductor
19521 E. 32nd Pkwy, Aurora, Colorado 80011 USA
Phone: 303−675−2175 or 800−344−3860 Toll Free USA/Canada
Fax: 303−675−2176 or 800−344−3867 Toll Free USA/Canada
Email: orderlit@onsemi.com

N. American Technical Support: 800−282−9855 Toll Free USA/Canada
Europe, Middle East and Africa Technical Support:
Phone: 421 33 790 2910
Japan Customer Focus Center
Phone: 81−3−5817−1050

ON Semiconductor Website: **www.onsemi.com**

Order Literature: http://www.onsemi.com/orderlit

For additional information, please contact your local Sales Representative