

## Features:

- Microsoft® WHQL approved
- Conforms to USB 2.0 full speed (12Mbps)
- Class 2 performance (+4dBm)

## General Description

NanoSira Reference Radio is CSR's turnkey reference design of a Bluetooth enabled USB Dongle. It is an Authorised Bluetooth™ Control Device (ABCD) for Windows Hardware Qualification Lab (WHQL) testing.

The NanoSira Bluetooth Reference Radio uses the on-chip USB interface on CSR's BlueCore2™-External device. Due to the highly integrated design of BlueCore2-External, a minimal number of additional components are needed to complete a Bluetooth system design. This enables CSR to keep the cost and size to a minimum.



**NanoSira Reference Radio**

# NanoSira Reference Radio

## ABCD Bluetooth™ USB Dongle

An Authorised Bluetooth Control Device used to obtain WHQL certification for Bluetooth PC products

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## Application

- Used to obtain Microsoft Windows® XP WHQL certification for Bluetooth PC hardware and software products.

The NanoSira Reference Radio uses CSR's established v1.1 HCI Bluetooth Software stack and supports scatternet and 7 slave piconet operation.

This hardware and firmware has been selected by Microsoft as a Bluetooth host controller (radio) for performing the WHQL hardware compatibility tests (HCT).

This firmware is digitally signed to prevent unauthorised firmware upgrades. Only WHQL approved firmware from CSR can be loaded maintaining WHQL qualification.

The design is compact with outside dimensions of only 50 x 20 x 5mm while maintaining +4dBm output power and -82dBm receive sensitivity using a printed antenna.

## Ordering Information

| Product Name             | Order Number |
|--------------------------|--------------|
| NanoSira Reference Radio | BC2ABCD-USB  |

## Document References

| Document References                                | Version   |
|--|---|
| Specification of the Bluetooth system              | 1.1   |
| BlueCore2-External data book                       | BC212015LF-ds-001c  |
| Obtaining WHQL certification for Bluetooth devices | <a href="http://www.microsoft.com/hwdev/tech/network/bluetooth">http://www.microsoft.com/hwdev/tech/network/bluetooth</a> |

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## Record of Changes

| Date:                         | Revision: | Reason for Change:                    |
|-------------------------------|-----------|---------------------------------------|
| 8 <sup>th</sup> December 2002 | a         | Original publication of this document |

# BlueCore2™ NanoSira Reference Radio

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