



Changing the way the world connects

# Bluetooth Voice Dongle Solution

- State of the art fully integrated, low power single-chip Bluetooth device with on-chip DSP
- Voice Dongle application software with automatic pairing and no software installation
- Fully documented and tested reference design that can be used as-is to rapidly get your design to market
- Hardware and software development environments



## Enabling wireless, low cost VOIP telephone calls via your PC

The use of free or low cost telephony over internet protocol (other wise known as Voice over IP or VoIP) has seen a dramatic take up in recent years. Taking a call using VoIP is low cost and convenient. Adding to this the ability to take the call any where in your house using a Bluetooth headset, without sitting at a computer desk, makes it even more attractive. The Voice Dongle solution from CSR enables you to quickly set up to take a wireless VoIP call as it has NO installation software.

Making low cost internet telephone calls is becoming common place with over 38 million users registered with Skype™, one of the more popular service providers. The one draw back is that you have to be sat at your PC to take the call and this can sometimes be inconvenient. The ability to take the call anywhere is therefore a must. A great way to take a call anywhere around your home is via a Bluetooth headset. You may already have a headset so it's simply a case of purchasing a Voice Dongle and that's it. There's no need to install any PC software or go through long and laborious set up steps.

The CSR Voice Dongle is true plug and play and supports automatic pairing to any Bluetooth headset or headphone in range. The solution from CSR also includes a fully tested and complete reference design so you can build to print with little or no extra development. The solution also includes software hooks for use with proprietary software, if required, and the ability to develop bespoke software features in the BlueLab development environment.

Designing with the Voice Dongle Solution is quick and simple and can enable you to take a full Dongle product to market in a few weeks.



Voice Dongle Development Board



## CSR: The world leader in single-chip Bluetooth solutions

The CSR Voice Dongle Solution is the industry's leading Bluetooth solution developed specifically to enable convenient wireless phone calls over Voice over IP.

### The Voice Dongle Solution includes:

- Industry leading, highly integrated single-chip Bluetooth devices
  - Highly integrated to reduce BOM costs with DSP, linear regulator and Audio CODEC on-chip
  - Fully interoperability tested
- CSR Application Software with:
  - Ability to automatically pair with most Bluetooth headsets
  - Automatic PC connection and use without the need to install any PC software
  - Software hooks for use with proprietary PC software if needed
  - Works with Bluetooth devices supporting HFP or HSP with support for audio connection management, HID keyboard and call management
  - Supports 8 KHz, 16-bit, mono audio
- Fully tested, qualified and verified low cost reference design
  - With USB interface for direct connection to your PC and built-in button for automatic pairing based on BlueCore3-Multimedia External
- Software Development Kit – BlueLab
  - Development tools that allow you to customise the features and the user interface of your headset to differentiate it from your competition
- Local Technical Support in all geographies
  - Web based support: [www.csrsupport.com](http://www.csrsupport.com)

### CSR's Voice Dongle Solution, enabling wireless, low cost VoIP telephone calls via your PC

Audio Solution	Features	CSR Device	Hardware Development Kit	Application Software	Software Development Kit
<b>Voice Dongle</b>	Voice Dongle application, Kalimba DSP, on-chip linear regulator and audio CODEC, and fully tested in the CSR interoperability lab.  Supports: <ul style="list-style-type: none"><li>▪ Call answer</li><li>▪ Call hang up</li><li>▪ Volume up</li><li>▪ Volume down</li><li>▪ Mute</li><li>▪ Auto-pairing via dongle push button</li><li>▪ Two LEDs</li></ul>	BlueCore3-Multimedia External	VD-SDS-1A  Voice Dongle Solution Development System (SDS)  Full Reference Design including schematic, BOM, Gerber files and example hardware.  USB Certified  Available now	BlueLab VM application configurable by PS Keys.  Full source code also supplied in the Solution Development System.	Voice Dongle SDK (Part of the Solution Development System – SDS)  Available now



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