



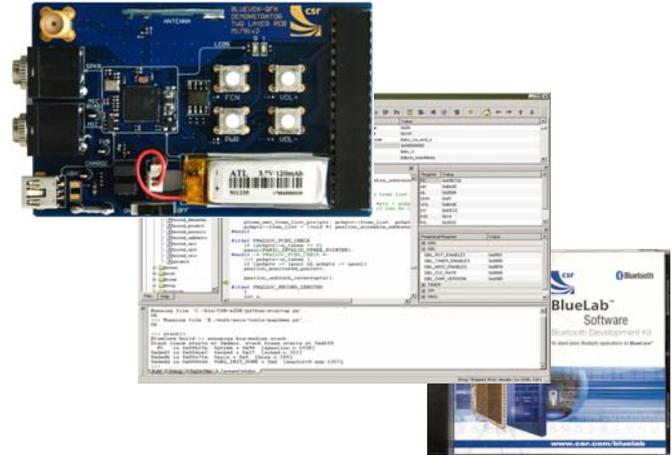
Changing the way the world connects

Product Brief

BlueVOX Flash + BlueLab SDK

Low cost, fully flexible Bluetooth headset solution

- Based on BlueCore4-Audio Flash: low cost Bluetooth chip with reprogrammable flash memory
- All software held in Flash for full flexibility, no external EEPROM needed
- BlueLab software development kit with full headset C language source code
- Built in temperature controlled Li charger, SMPSU, audio codec
- Latest Bluetooth standards (BTv2.0+EDR/2.1)



CSR's BlueVOX Flash solution allows you to design high performance, low cost Bluetooth headsets with advanced new software features. Based on the BlueCore4-Audio Flash chip, the new solution combines a high performance, low power Bluetooth radio, 6Mits of on-chip FLASH memory and a comprehensive SDK for complete software flexibility.

The market for Bluetooth headsets is increasingly competitive, and the ability to respond quickly to customer requests can be the difference between success and failure. BlueVOX Flash together with the BlueLab SDK puts you in control of the headset software, so you have complete flexibility to develop new features to meet urgent, time critical requests.

BlueVOX Flash is compatible with other chips in CSR's headset portfolio, speeding time to market by allowing reuse of code. Software developed for the BlueVOX Flash solution will run with minimal modifications on BlueCore5-Multimedia, providing an easy upgrade path. CSR also offers BlueCore4-Audio ROM, a ROM based chip that is pin for pin compatible with BlueCore4-Audio Flash, providing a quick route to cost reduction.

The BlueLab Headset v5 Application software has been extensively tested by CSR and by independent test houses. These tests include more than 55 popular Bluetooth phones and cover all headset functionality in detail. A full test report is available from CSR, so you can be sure that you are starting from a stable code-base.

BlueVOX QFN Key Features

- Small footprint 8x8mm BGA (<15x15mm total area)
- 6Mbits embedded, reprogrammable Flash memory
- No external EEPROM required
- Less than 40mW power dissipation when on a call
- Support for eSCO + EDR
- Direct connection for mic and speaker
- Integrated switched-mode regulator and battery charger
- Low cost development hardware
- BlueLab SDK with tested headset source code

BlueVOX QFN Key Applications

- Low cost , high quality Bluetooth headsets for bundling with mobile handsets
- Low cost , high quality Bluetooth headsets for PC VoIP systems



Development Tools and Resources

BlueVOX Flash headset Development Kit



This kit includes all hardware needed to start developing headsets based on the BlueVOX Flash solution, including development PCB, headset and cables and drivers to connect to you PC

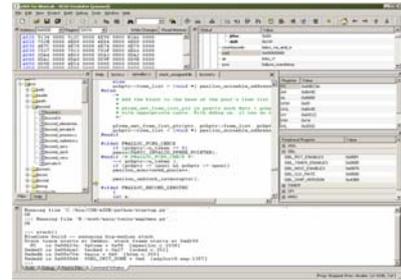
VOIP Dongle



The BlueVOX development kit comes with a VOIP dongle that links any headset, for example the BlueVOX development board, to a PC. It enumerates on the PC USB bus as a sound card using standard USB drivers. As a result, it is not necessary to run any special software on the PC, reducing installation time.

Once connected to a PC the headset can be used with VoIP systems. When used with the Skype system the user can make and receive calls using the buttons on the headset. BlueLab contains full source code for the VOIP dongle.

BlueLab Software Development Kit



The BlueLab SDK includes a code editor, debugger and compiler for software development on CSR chips. BlueLab also includes full source code for CSR's latest fully tested headset, providing a stable starting point for your software development.

BlueVOX QFN web site



The BlueVOX Flash web area contains all the information needed to make a headset based on BlueCore4-Headset.

<https://www.csrsupport.com/BlueVOXFlash>

Ordering Information

Description	Features	Order Number
BlueCore4-Audio Flash	<ul style="list-style-type: none"> Small footprint 8x8mm BGA 6Mbits on chip Flash. Full featured SDK available Codec, switched-mode regulator and battery charger Support for Bluetooth v2.0+EDR, eSCO + HFP v1.5 	BC413159A11-IQA-E4
BlueLab HSv5 SDK	<ul style="list-style-type: none"> Software development system 	BLUELAB
BlueVOX development system	<ul style="list-style-type: none"> Bluetooth development board VoIP dongle Configurator application 	BV-001-3A, \$500

- Contact your local CSR distributor, see www.csr.com/distributor



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