Wireless Products
Bluetooth® ICs

The BlueCore™ line of Bluetooth products for CSR integrate a radio and baseband along with peripherals to match your application requirements. Variants are available with integrated ROM or flash, Multimedia versions with integrated DSP and stereo codec, or Plug-n-Go™ with integrated balun, filter and matching.
BlueCore™3: CSR's complete v1.2 Bluetooth solution including eSCO (extended Synchronous Connections), which allows for retransmissions of dropped packets, allowing for a cleaner, better sound out of your Bluetooth device.

BlueCore™4: CSRs EDR (Enhanced Data Rate) v2.0 Bluetooth solution, it offers backwards compatibility with v1.1 and v1.2 Bluetooth devices. External Flash, ROM, Plug-n-Go™ and Headset versions are available to match your application. Offers up to 3 times the data rate as previous versions of Bluetooth with lower power consumption.
BlueCore™5: series offers the latest generation technology, offering compatibility with the next generation Bluetooth spec, v2.1.

B

Memory Flash Type	ROM (Mbits)	On-Chip (Mbits)	Features/ Codec	Operating Voltage	Package	Digi-Key Part No.	1	10	50	Digi-Key Part No.	Tape & Reel Pricing 2,000	CSR Part No.
						BlueCore™3						
ROM	—	4	PCM Interface	Dual UART Ports, Self Test / 1.8V	42-CSP	BC313141A18-IXF-E4CT-ND	5.15	45.32	175.10	BC313141A18-IXF-E4TR-ND	2680.00/M	BC313141A18-IXF-E4
ROM	—	4	PCM Interface	USB, Self Test / 1.8V	84-VFBGA	BC313143A18-IRK-E4CT-ND	5.98	52.58	203.15	BC313143A18-IRK-E4TR-ND	3100.00/M	BC313143A18-IRK-E4
Multimedia External Flash	—	—	16-Bit Stereo Audio	DSP Co-Processor, Dual UART, Scatternet / 1.8V	120-VFBGA	BC352239A-IVQ-E4CT-ND	9.90	87.12	336.60	BC352239A-IVQ-E4TR-ND	5150.00/M	BC352239A-IVQ-E4
Multimedia, Plug-n-Go	8	—	16-Bit Stereo Audio	DSP Co-Processor, Dual UART, Scatternet, Regulator / 1.8V	96-LFBGA	BC358239A-INN-E4CT-ND	18.50	162.80	629.00	BC358239A-INN-E4TR-ND	9360.00/M	BC358239A-INN-E4
Audio Flash	6	—	15-Bit Linear Audio	UART, Scatternet, On-Chip Regulator and Battery Charger / 1.8V	96-TFBGA	BC31A223A-IVN-E4CT-ND	12.90	113.52	438.60	BC31A223A-IVN-E4TR-ND	6710.00/M	BC31A223A-IVN-E4
						BlueCore™4						
External Flash	—	—	PCM Interface	Dual UART Ports, USB, Scatternet, Regulator, WiFi Coexistence / 1.8V	96-TFBGA	BC417143B-IQN-E4CT-ND	6.50	57.20	221.00	BC417143B-IQN-E4TR-ND	3390.00/M	BC417143B-IQN-E4
External Flash	—	—	PCM Interface	Dual UART Ports, USB, Scatternet, Regulator, WiFi Coexistence / 1.8V	96-VFBGA	BC417143B-IRN-E4CT-ND	6.50	57.20	221.00	BC417143B-IRN-E4TR-ND	3390.00/M	BC417143B-IRN-E4
ROM	—	4	PCM Interface	Dual UART Ports, USB, Scatternet, Regulator, WiFi Coexistence / 1.8V	84-VFBGA	BC41B143A06-IRK-E4CT-ND	6.75	59.40	229.50	BC41B143A06-IRK-E4TR-ND	3510.00/M	BC41B143A06-IRK-E4
ROM	—	4	PCM Interface	USB, UART, Scatternet, Regulator, WiFi Coexistence / 1.8V	47-CSP	BC41B143A06-IXB-E4CT-ND	5.80	51.04	197.20	BC41B143A06-IXB-E4TR-ND	3010.00/M	BC41B143A06-IXB-E4
Headset	—	6	15-Bit Linear Audio	UART, Regulator, Battery Charger / 1.8V	96-TFBGA	BC413159A06-IPK-E4CT-ND	9.15	80.50	311.00	BC413159A06-IPK-E4TR-ND	4940.00/M	BC413159A06-IPK-E4
Flash, Plug-n-Go	8	—	PCM Interface	Dual UART Ports / 1.8V	96-LFBGA	BC419143B-ANN-E4CT-ND	18.25	160.60	620.50	BC419143B-ANN-E4TR-ND	9480.00/M	BC419143B-ANN-E4
ROM, Plug-n-Go	—	4	PCM Interface	Dual UART Ports / 1.8V	96-LFBGA	BC41B143A06-ANN-E4CT-ND	10.68	93.94	362.95	BC41B143A06-ANN-E4TR-ND	5550.00/M	BC41B143A06-ANN-E4
Headset	—	6	15-Bit Linear Audio	USB, UART, Regulator, Battery Charger / 1.8V	96-TFBGA	BC413159A10-IPK-E4CT-ND	8.70	76.56	295.80	BC413159A10-IPK-E4TR-ND	4520.00/M	BC413159A10-IPK-E4
Headset	—	6	15-Bit Linear	USB, UART, Regulator, / 1.8V	56-QFN	BC413159A11-IQA-E4CT-ND **NEW!**	6.13	53.90	208.25	BC413159A11-IQA-E4TR-ND **NEW!**	3180.00/M	BC413159A11-IQA-E4
Audio Flash	6	—	15-Bit Linear	UART, LED Driver, Regulator, Battery Charger / 1.8V	96-TFBGA	BC41C671A-IPK-E4CT-ND **NEW!**	12.15	106.92	413.10	BC41C671A-IPK-E4TR-ND **NEW!**	6320.00/M	BC41C671A-IPK-E4
						BlueCore™ 5						
Multimedia, External Flash	—	—	16-Bit Stereo Audio	USB, UART, Regulator, Battery Charger / 1.5V	169-TFBGA	BC57E687B-ITB-E4CT-ND **NEW!**	11.10	97.68	377.40	BC57E687B-ITB-E4TR-ND **NEW!**	5770.00/M	BC57E687B-ITB-E4

Bluetooth® Application Development Kits and Reference Design Kits

Bluetooth Development Kits and Reference Design Kits provide hardware to evaluate many different application possibilities and give you the opportunity to develop with different BlueCore™ devices. Kits provide components with Bluetooth application profile(s) along with CD with PSKEY editing software.
AUTOSIRA-01 provides a hardware reference design utilizing the headset and hands-free profiles for car kits and hands-free kits for wireless audio. **BC2ABCD** provides a hardware reference design of a Bluetooth USB Dongle, Authorized Bluetooth Control Device for WHQL (Windows Hardware Qualification Lab) testing. **BTN-001A** BlueTunes1 Development Kit provides a hardware reference design for wireless stereo audio (headset, speakers), using the BlueCore™3 Multimedia Bluetooth IC. **BTN-002-2A** Bluetunes2 Development Kit provides a hardware reference design for wireless audio, comes with headset and a USB Music/Voice Dongle for VOIP calling and music streaming. **DEV-SYS-1487-1B** provides a UART and SPI Interface to your PC for your UniFi™ or BlueCore prototype boards. **DEV-RR-001-1A** provides a hardware reference design and complete solution for developing a hands-free application. Can be used with the **DEV-RR-SDK-01A** Software Development Kit to develop your user interface including custom ring tones and text-to-speech for PIN IDs and incoming Caller ID notification. The Software Development Kit provides you with source code and allows you to customize the software features and user interface to match your application.

AUTOSIRA-01-ND	Hands Free Car Kit Reference Design, BlueCore2	$1250.00
BC2ABCD-USB-ND	USB Dongle Reference Design, BlueCore2	$119.00
BTN-001A-ND	BlueTunes1 Development Kit for Wireless Stereo Audio, BlueCore3 Multimedia	$500.00
BTN-002-2A-ND	Bluetunes2 Development Kit for Wireless Stereo Audio, BlueCore5 Multimedia	$1000.00
DEV-SYS-1645B3-1A-ND **NEW!**	BC5-MM Development Board only	$400.00
BV-001-3A-ND	BlueVox Development Board, Wireless Audio	$600.00
DEV-SYS-1487-1B-ND	USB Dongle Bluetooth EDR Reference Design, Nanosira, BlueCore4 External	$100.00
DEV-SYS-1504-1A-ND	UART and SPI Level Shifter Interface Board for UniFi or BlueCore	$300.00
DEV-RR-001-1A-ND	RoadRunner Plug-n-Talk Reference Design Hardware, vehicle plug in for hands-free evaluation	$1000.00
DEV-RR-SDK-01A-ND	Road Runner Plug-n-Talk Software Development Kit	$2000.00

Wi-Fi Voice Development Kit

The DEV-SYS-UNIVOX-1A Development Kit provides a complete Voice-over-Wi-Fi phone reference platform. The UniVox platform provides the hardware design, with no license or royalty payment required. You can configure the MMI or leave it as is to develop your complete Voice-over-Wi-Fi Solution.

DEV-SYS-UNIVOX-1A-ND	UniVox Voice over Wi-Fi Reference Design Development Solution UniFi™	$500.00

Bluetooth® Development Tools

Casira™

The Casira Development Kit allows for the development and testing of your Bluetooth design. This kit includes; 2 Casira development pods (each pod includes a BlueCore™ based module), power supplies and cords, programming and RS232 cables, 2 headsets and a CD with documentation and BlueSuite Software. BlueSuite includes drivers to communicate with the BlueCore devices at the HCI and RFCOMM layers, and programs such as BlueChat for establishing a data or voice link, and BlueTest which can be used to put the BlueCore device into test modes for radio development and qualification. BlueSuite also provides a Flash ROM loader and Device Firmware upgrade Wizard.

BCES01-ND	Bluetooth Development Kit	$3000.00
BCES01-EP-ND	Casira End Point (Development Pod)	$700.00
ANT001-ND	Antenna for Casira Module	$18.26
CK001-ND	Connector Kit (as fitted to Casira Motherboard)	$24.60
CK003-ND	DEV-PC-1264 board and cable	$26.25
STK-417143B-1B-ND **NEW!**	Module (2) for Casira Development Kit	$250.00

BlueLab™ SDK

The BlueLab SDK (Software Development Kit) provides developers with a graphical user interface to develop their Bluetooth application on the microcontroller that is on the BlueCore devices, providing for applications without a separate host processor. The xIDE development environment provides a Project Manager Interface to make development easier. BlueLab also provides source codes for several Bluetooth application profiles: SPP (Serial Port Profile), DUN (Dial-Up Networking), HID (Human Interface Devices), A2DP (Advanced Audio Distribution Profile), AVRCP (Audio Video Remote Control Profile) and others.

BLUELAB-ND	Bluetooth Software Development Kit	$3000.00

NEW! UniFi™ WLAN ICs

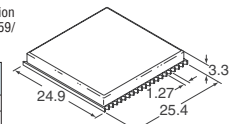| WLAN Support	Interface	Features	Supply Voltage	Package	Digi-Key Part No.	1	10	50	CSR Part No.
802.11b/g	SDIO/SPI	OFDM/CCK	1.5V	88-CSP	UF1050A-IC-ECT-ND§	15.48	13.62	10.53	UF1050A-IC-E
					UF1050A-IC-ETR-ND‡		16100.00/2,000		UF1050A-IC-E

§ Cut Tape ‡ Tape and Reel

NEW! DeLORME GPS Module and Kit

The GPS2056-10 module is a high sensitivity, low power, SMD type 12-channel GPS receiver designed for a broad spectrum of OEM applications. Based on the fast and deep GPS signal search capabilities of the STMicroelectronics STA2056V-Palinuro chip, it features an integrated RF block combined with the high performance CPU of ARM7TDMI microprocessor. The end result provides excellent navigation performance in the most challenging urban environments. The GPS2056-10 offers RTCA-SC159/WAAS/EGNOS support and provides excellent sensitivity and high configurability in a small package.

24.9 — 1.27 — 25.4 — 3.3

Description	Frequency (MHz)	Hot/Warm/Cold Start (Seconds)	Package	Digi-Key Part No.	1	25	100	Digi-Key Part No.	Tape and Reel Pricing
12-Channel L1 GPS Receiver Module	1575.42	1/38/114	40-Pin SMD	GM-205610-000CT-ND§	38.08	29.30	27.35	GM-205610-000TR-ND‡	8710.00/335
Development Kit/Navigation System with Street Atlas Software, Antenna and Cables				GM-2056EV-101-ND	495.00	—	—		

§ Cut Tape ‡ Tape and Reel

~ Exclusive Preview ~
New Product Available Now!