



## Zoom™ Starter Development Kit Low Cost Development System

Description	Digi-Key Part No.	Price Each	Logic Product Dev. Part No.
<b>Sharp</b>			
Card Engine for LH79520	460-3464-ND	264.67	CENGLH79520-10-403HCR-A
Card Engine for LH7A400, with 16Mb NOR Flash	460-3459-ND	295.26	CENGLH7A400-10-503HC-B
Zoom Starter Kit for LH7A404	460-1017-ND	399.00	SDK-LH7A404-11-6416
Card Engine for LH7A404, with 16Mb NOR Flash	460-3465-ND	304.57	CENGLH7A404-11-503HCR-A
Card Engine for LH7A404, with 32Mb NOR Flash	460-3467-ND	348.46	CENGLH7A404-11-504HCR-B
Zoom Starter Kit for LH7A404	460-3473-ND	399.00	SDK-LH7A404-11-6416R
Zoom Starter Kit for LH79524	460-3474-ND	438.90	SDK-LH79524-10-3216R-A
<b>AMD — RoHS Compliant</b>			
Geode™ LX800 System on Module (SOM)	460-3466-ND	264.67	SOMLX800-11-000GCR-A
Evaluation Kit Zoom Geode for LX800	460-3468-ND	847.21	LX-DB800D-EVAL-KIT
<b>Marvell — RoHS Compliant</b>			
Zoom Starter Kit for PXA270	460-3472-ND	563.92	SDK-PXA270-520-10-6432R
Card Engine for PXA270	460-3475-ND	231.42	CENGPXA270-312-10-550EGR
Card Engine for PXA270	460-3479-ND <b>NEW!</b>	317.87	CENGPXA270-520-10-504HCR
<b>Renesas</b>			
Zoom Starter Kit for SH7760	460-1027-ND	506.73	SDK-SH7760-10-6416
<b>Freescale — RoHS Compliant</b>			
Zoom Kit for PowerQuicc MPC8360 400MHz	460-3476-ND	457.52	COMMP8360-10-1652LCR
Zoom Kit for PowerQuicc MPC8360 667MHz	460-3477-ND	666.33	COMMP8360E-10-2752FCR
<b>Texas Instruments — RoHS Compliant</b>			
Zoom Starter Kit for OMAP3530	460-3478-ND	1050.70	TMDSMEVM3530-L

### RoHS Compliant

**Sharp and Renesas Zoom Starter Development Kit Includes:** • Card Engine (LH79520, LH79524, LH7A400, LH7A404, SH7727, SH7760) • Application board • Standard peripheral connectors supporting: Ethernet, LCD, Audio In/Out, Serial, Compact Flash (Refer to Card Engine for support of peripherals) • Power supply and adapters for UK, US, EU, Japan • Serial cable • LogicLoader™ (bootloader/monitor) in executable format • BSPs available depending on Card Engine purchased • GNU cross-development tools (compiler, linker, assembler, debugger) are included for Linux development systems

**Card Engine Application Development Kits** reduce product development time by allowing software teams to immediately begin application development on platforms that transfer seamlessly to production. They provide:

- Product-ready Card Engine platforms that support final production
- Production quality device drivers and bootloader
- Support for Microsoft Windows CE and CE.NET, Linux embedded OS, VxWorks, ThreadX, and MC/OSII
- Vast array of on-board hardware peripherals

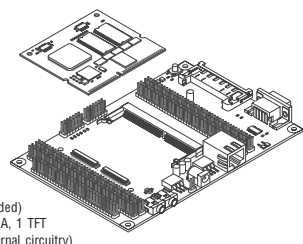
**AMD Zoom Geode Evaluation Kit:** • AMD Geode™ NX1500 @6W processor (NX1250 and NX1750 available) • Fanless design • DIMM memory support for PC 2700 DDR DRAM up to 1 GB (256MB included)

- SIS741CX Northbridge • SIS964 Southbridge • 1 VGA, 1 TFT flat panel adapter (TFT support requires separate external circuitry)
- Optional touch panel support • SIS900 compatible ethernet adapter (10/100base-TX) • Wake on LAN support
- AC97 Audio controller interface (SIS7012 Compatible) • PCI 2.2 Expansion slot • Support for 6 USB 2.0 High Speed (480 Mbps) host connections • Winbond W83627 SuperIO Controller • 1 parallel, 2 serial (1 DB9, 1 header on-board), System/CPU temperature/voltage monitor • ACPI 2.0 power management (support for S1, S3, and S5 sleep states). Kit contents: Geode NX1500 SBC, 256 MB DDR DIMM, Heatsink, Development tools and software, Support documentation

**Marvell Zoom Starter Kit:** • Standard peripheral connectors supporting: Ethernet, LCD, Audio In/Out, Serial, Compact Flash, USB Host, USB device • Power supply and adapters for UK, US, EU, Japan, serial cable • LogicLoader™ (bootloader/monitor) in executable format • GNU cross-development tools (compiler, linker, assembler, debugger) are included. Kit contents: Card Engine, Application Board, Ethernet cross-over cable, Serial cable, Power supply/adaptor (Europe, Japan, UK, and US), QuickStart Guide, Logic Starter CD, EULA • The PXA270 Card Engine is a complete System on Module (SOM) that offers essential features for handheld and embedded networking applications • Use of custom baseboards makes the Card Engine the ideal foundation for OEMs developing handheld and compact products • Provides a common reference pin-out on its expansion connectors, which enables easy scalability to next generation microprocessor Card Engines when new functionality or performance is required.

**Freescale:** MPC8360 COM EXPRESS: • Product-ready SOM with the Freescale PowerQuicc™ MPC8360 processor running at 400MHz or MPC8360E processor running at 667MHz • COM Express compact form factor 95mm x 95mm x 14.5mm • Long product life-cycle • U-Boot bootloader installed in flash • Linux Board Support Packages (BSPs).

**Texas Instruments:** OMAP 3 SOM-LV: • Product-ready System on Module with a TI OMAP 3 processor running up to 600MHz (SOM hardware supports OMAP3530, OMAP3525, OMAP3515, OMAP3503, and OMAP3430 processors) • Compact form factor - SOM-LV Type III (31mm x 76.2mm x 7.4mm) • Long product lifecycle • Microsoft Windows® Embedded CE 6.0 Board Support Packages (BSPs) • Open source Linux™ BSP.



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## Zoom™ Display Kit

The Zoom Display Kits are ready to use LCD displays that can be immediately connected to the Zoom Application Development Kits. The display kits include: • Bezel • Backlight • 4 Wire Resistive Touch Panel • Cable Assemblies

Description	Sharp LCD Part No.	Digi-Key Part No.	Price Each	Logic Product Dev. Part No.	Display Format	Sharp Card Engine							
						LH79520	LH79524	LH75401	LH7A400	LH7A404	SH7727	SH7760	
3.6" QVGA (320 x 240), Color TFT	LQ03601DA01	460-3470-ND	597.17	LCD-3.6-QVGA-10R-A	QVGA (320 x 240)	X	X	X	X	X	X	X	X
6.4" VGA (640 x 480), Color TFT	LQ64D343	460-3471-ND	903.07	LCD-6.4-VGA-10R	VGA (640 x 480)	X	X	X	X	X	X	X	X
Freescale Display Cable	LCDCABLE-FREESCALE-10	460-1028-ND	79.80	—	—	—	—	—	—	—	—	—	—

### RoHS Compliant



## BlueStreak MCU/SoC

The 16/32 bit BlueStreak MCU/SoCs offer higher performance than ordinary 16-bit MCU utilizing the ARM7TDMI core with 32KB of on-chip SRAM, color and grayscale LCD controller, plus three UARTs, SPI, CAN 2.0B, three 16-bit Counter/Timers, A/D Converter, Watchdog Timer and Low Voltage Detector, they are an excellent solution to speed-versus-cost concerns. Applications include GPS, PDA, Printers/Copiers, Security Control Panels, and White Goods.

The 32-bit series of BlueStreak MCU/SoCs begins with the LH795x and LH754xx, which combine a 32-bit ARM7TDMI RISC core with 8KB Cache, MMU, color LCD controller, and 32KB SRAM. Also included are a number of essential peripherals

such as a DMA Controller, Serial and Parallel Interfaces, Infrared Support, Counter/Timers, Real Time Clock, Watchdog Timer, Pulse Width Modulators and an on-chip Phase Lock Loop. For more power, the LH7A40x SoCs build on this basic feature set with 80KB of SRAM, ARM9 cores and add highly-desired functionality like USB and MMC. With their high performance and integration, the 32-bit BlueStreak devices are a great choice as a basis for handheld devices like GPS, Games, PDAs, Pocket PCs, and Media Players. **Features:** • Operating Temperature: Industrial (-40°C - 85°C) • VCC: 1.8V • SPI: Yes • WDT: Yes • JTAG: Yes

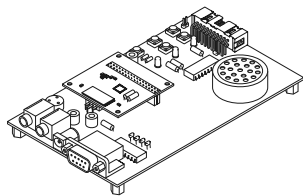
Memory Size RAM Bytes	GP I/O Pins	UART	CAN	DMA	USB	Microwire	Timer/Counters 16-bit	PWM	ADC	LCD Controller	Clock Speed (MHz)	Package	Digi-Key Part No.	Price Each	Sharp Part No.
32K	76	3	2.0B	4-Channel	—	Yes	3	3	8-Ch, 10-Bit	Y (Gray)	70	144-TQFP	425-1860-ND	15.93	LH75400N0M1000C
	86	3 (w/IRDA)	—	4-Channel	v2.0	Yes	3	3	10-Ch, 10-Bit	Y (Color)	77.4	176-LQFP	425-1866-ND	20.38	LH79525N0M1000A0
80K	60	3 (w/IRDA)	—	10-Channel	v2.0	Yes	3	2	—	Y (Color)	200	256-CABGA	425-1867-ND	24.95	LH7A400N0E000B3A
	64	3 (w/IRDA)	—	12-Channel	v2.0	Yes	3	2	10-Ch, 10-Bit	Y (Color)	200	324-CABGA	425-1868-ND	35.15	LH7A404N0E000B0A



### VR Stamp Voice Recognition Module

The VR Stamp is the first rapidly deployable speech module to use Sensory's proprietary Quick T2S1™ (text to speaker independent) technology, which allows developers to create working recognition sets in minutes. Multiple languages are supported, making the VR Stamp useful for products virtually anywhere in the world. Based on Sensory's RSC Family of microcontrollers, the VR Stamp is a completely modularized, production ready speech recognition system that allows products to speak and hear with minimal development time and low system cost. VR Stamp simplifies the integration of speech recognition into products by combining all key components into a small 40-pin DIP footprint module. A low-noise audio channel and standardized packaging allow rapid prototyping, less debugging and shorter time to market. The VR Stamp offer 24 I/O lines, as well as connections for a power, ground, microphone, speaker and logic-level RS232 interface.

**Kit Contains:** VR Stamp Tool Kit CD (FluentChip™ technology library, Quick T2S1 Lite, Quick Synthesis 4, documentation, drivers and demos), Phython C Compiler (60-day trial) CD and dongle, VR Stamp Programming Board, 2 VR Stamp Modules, 120V Power Supply, Speaker and USB Cable.



Description	Digi-Key Part No.	Price Each	Sensory Part No.
VR Stamp Tool Kit	VRKIT-ND	349.98	66-0110



## QV400D™ Prototype Programming Kit for Winbond ChipCorder Devices

### System Overview:

QV400D provides all the software and hardware functions needed to develop complex messaging systems using Winbond's ChipCorder family of analog recording devices. Utilizes standard Windows® .wav format as input (11.025KHz, 16-Bit mono format only). **Project Software:** QV400S™ is a software package designed to unify the interface between users and various speech development systems produced by Quadtravox. It consists of one executable file, QV400S1.exe (for Windows 95 or later), several DLLs (one at least for each development system), several help files, and an initialization file, QV400S1.ini (Win95 or later). **Programmer Hardware:** The speech data created by the project software may be programmed into any Winbond ChipCorder device using the QV400D Programmer Board. Separate easy-to-use ZIF sockets are provided for the ISD11000-2500 and ISD33000-4000 devices. **Power Supply:** Output voltage: 9VDC; Current: 200mA minimum, 110V AC, 60Hz input. **Minimum System Requirements:** QV400D will run on any PC operating under Windows '95 or '98 • CPU Pentium 66MHz • 8MB Ram (16MB and up preferred) • 1.5MB hard disk space • A 16-Bit sound card capable of 11.025KHz record and 16-Bit, 44.1KHz stereo playback is also needed for data acquisition.

Package Type	For Device Type	Digi-Key Part No.	Price Each
<b>Socket Adapters for the QV400D</b>			
28/600 DIP	ISD5008P and ISD5116P	QV400D-03A-ND	39.00
28-Pin TSOP	ISD5008E and ISD5116E	QV400D-03C-ND	39.00
28/300 SIOC	ISD1100S, 1200S, 1400S and 2500S	QV400D-04-ND	39.00
28/350 SIOC	ISD1100G and ISD2500G	QV400D-05-ND	39.00
28-Pin TSOP	ISD33000E and ISD4000E	QV400D-07-ND	39.00
—	ISD33000 OR 4000 Based Module	QV400D-08-ND	19.00

**Prototype Programming Kit for Winbond ChipCorder Devices**  
**Kit Contents:**

- 2 Floppy Disks containing all QV400D software and documentation (Help file)
- 1 Programmer Board with two empty ZIF sockets
- 1 Audio Cable (6 ft. shielded, 1/8" stereo miniplug at both ends)
- 1 Power Supply: 9V DC 300mA, 2.1mm female plug, center positive

**QV400D-ND ..... \$249.00**

More Product Available Online: [www.digkey.com](http://www.digkey.com)

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