



PRODUCT CHANGE NOTICE

Diamond Systems announces the End of Life for all models of the Athena II and Hercules II single board computer families

Products: [Athena II Single Board Computers](#)
[Hercules II Single Board Computers](#)

Affected Part Numbers:

ATHM500-256A	Athena II SBC, 500MHz VIA Mark, 256MB DRAM, on-board data acquisition
ATHM500-256N	Athena II SBC, 500MHz VIA Mark, 256MB DRAM
ATHM800-256A	Athena II SBC, 800MHz VIA Mark, 256MB DRAM, on-board data acquisition
ATHM800-256N	Athena II SBC, 800MHz VIA Mark, 256MB DRAM
ATHM800-256ALP	Athena II SBC, 800MHz VIA Mark, 256MB DRAM, on-board data acquisition, low profile heatsink
ATHM800-256NLP	Athena II SBC, 500MHz VIA Mark, 256MB DRAM, low profile heatsink
DK-ATHM500A-01	Athena II 500MHz SBC Development Kit
DK-ATHM800A-01	Athena II 800MHz SBC Development Kit
HRC800-5A512	Hercules II SBC, 800MHz VIA Mark, 512MB DRAM, on-board data acquisition, 5-28VDC power supply, operating temperature of -40°C to +85°C
HRC800-5A512E	Hercules II SBC, 800MHz VIA Mark, 512MB DRAM, on-board data acquisition, 5-28VDC power supply, operating temperature of -20°C to +70°C
HRC800-5N512	Hercules II SBC, 800MHz VIA Mark, 512MB DRAM, 5-28VDC power supply, operating temperature of -40°C to +85°C
HRC800-5N512E	Hercules II SBC, 800MHz VIA Mark, 512MB DRAM, 5-28VDC power supply, operating temperature of -20°C to +70°C
DK-HRCEBX-02	Hercules II SBC Development Kit

Last Order Date: March 1, 2012

Last Delivery Date: July 1, 2012

Diamond Systems Announces the End of Life for all models of Athena II and Hercules II Single Board Computers and their Accessories

This End of Life Notice is being driven by VIA's end of life announcement for its VIA Mark and companion VT82C686B Southbridge chipset. This notice is the next step from the 2010 Continued Availability Program for all Athena II and Hercules II products. After more than six years on the market, Diamond is announcing the formal end of life for Athena II and Hercules II products.

Future Orders

For customers who have a blanket purchase order in place with Diamond Systems, these orders will continue to be executed per the blanket PO.

For customers who participated in the EOL Component Bonding Program (see below), Diamond will continue to execute the current build and shipment schedules. Please review these schedules with Diamond Systems as soon as possible to ensure your needs are met.

All other future orders for these products will be filled on a first come, first served basis. In order for us to fulfill your orders for these products, orders should be placed with Diamond Systems as soon as possible. Only a firm order received on or before the last order date will guarantee the availability of a product to meet your needs, subject to availability of EOL components. When the supply of EOL components is exhausted, Diamond will no longer accept orders.

Planned Price Increase

The prices for all Athena II and Hercules II products will increase after December 31, 2011. Final new prices will be announced in December, 2011.

EOL Component Bonding Program

For customers who participated in the Athena II or Hercules II Component Bonding Program, this program will continue as defined in the original Continued Availability Program document. The EOL Component Bonding Program runs through December 31, 2014.

Migration Strategies

Diamond Systems has form-factor compatible replacement single board computers for Athena II and Hercules II SBCs under development.

Named Athena III and Hercules III, these new single board computers are based on Intel Atom E-Series CPUs, are form-factor compatible with their predecessors, and feature the identical data acquisition circuitry as found on Athena II or Hercules II. Some features and design aspects of these new SBCs are different, but where possible functionality and connector locations have been preserved.

Please contact Diamond Systems or your Diamond Sales Partner for more information about the new Athena III and Hercules III SBCs, and a comparison to their respective Athena II and Hercules II counterparts.

The following table lists the features of Athena III and Hercules III. Engineering samples of Athena III and Hercules III will be available in early 2012.

Feature	Athena III	Hercules III
CPU	Intel Atom E640T at 1GHz	Intel Atom E680T at 1.6GHz
Memory	512MB soldered on-board	1GB soldered on-board
USB ports	4. USB 2.0	4. USB 2.0
Serial port	6 RS-232/422/485	4 RS-232/422/485
Networking	1 Gigabit Ethernet	2 Gigabit Ethernet
CANbus		1 CANbus 2.0 port
GPIO	8 lines	
Mass storage	1 SATA port	1 SATA port
Flashdisk	1 USB flashdisk interface	1 SATA Disk Module interface
Display	VGA CRT and LVDS LCD	VGA CRT and DVI/LVDS LCD
Keyboard/mouse	USB	PS/2
Audio	AC-97	AC-97
Expansion	PC/104 (ISA)	MiniPCIe, GPS, Socket modem sockets
A/D inputs	16 16-bit single-ended, 8 differential	32 16-bit single-ended, 16 differential
Sample rate	150KHz maximum	250KHz maximum
On-board FIFO	512 samples	2048 samples
Calibration	Autocalibration with software	Autocalibration with software
D/A outputs	4 12-bit	4 12-bit
DIO lines	24 lines	40 lines
Counter/timers	32-bit, 16-bit	32-bit, 16-bit, WDT, 4 PWMs
Input power	+5VDC	+5VDC +7 to +40V wide voltage input
Operating temperature	-40°C to +85°C (-40°F to +185°F)	-40°C to +85°C (-40°F to +185°F)
Shock	IEC68-2-27	IEC68-2-27
Vibration	MIL-STD-810E 514.4	MIL-STD-810E 514.4
Size	4.125" x 4.475" (106mm x 114 mm)	5.75" x 8.0" EBX form factor (146mm x 203 mm)
RoHS	Compliant	Compliant

Diamond Systems also offers a range of single board computers and computing systems that are possible replacements for Athena II or Hercules II, depending on your specific needs. Viable options include the following [Helios](#), [Aurora](#) and [Magellan](#) single board computer products:

HLV800-256AV	Helios PC/104 SBC, 800MHz Vortex86DX, 256MB RAM, full data acquisition, VGA/LCD video
HLV800-256DV	Helios PC/104 SBC, 800MHz Vortex86DX, 256MB RAM, digital I/O, VGA/LCD video
AUR-Z530-16-1G	Aurora PC/104 SBC, 1.6GHz Atom Z530, 1GB SDRAM
AUR-Z530-16-2G	Aurora PC/104 SBC, 1.6GHz Atom Z530, 2GB SDRAM
MAG-Z510-1G	Magellan COM Express SBC, 1.1GHz Atom Z510 CPU, 1GB soldered-on SDRAM, conduction cooling thermal solution
MAG-Z510LC-1G	Magellan COM Express SBC, 1.1GHz Atom Z510 CPU, 1GB soldered-on SDRAM, conduction cooling thermal solution, +12V input only
DMM-32DX-AT	Diamond-MM PC/104 Analog I/O Module

For more information, please feel free to visit us on the web at www.diamondsystems.com or call Diamond Systems at (650) 810-2500.