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Endura AB915GM

Endura 915GM FlexATX Pentium M Motherboard

Latest Technology

The Endura AB915GM FlexATX motherboard is based on Intel's long life, embedded 915GM Express chipset. Designed for high performance and low power, this is the first Intel Pentium® M chipset to introduce support for PCI Express, the latest high speed serial interconnect standard. For example, the PCI Express x1 slot delivers 500 MB/s, over 3.5 times the bandwidth of a conventional PCI slot at 133 MB/s. In addition, the 915GM has integrated third generation graphics with Intel® Graphics Media Accelerator (GMA) 900 which supports dual independent displays via two DVI ports, analog VGA and an 18-bit, dual channel LVDS interface. Integrated Intel® High Definition Audio provides 24-bit, two channel, stereo audio with support for 192 kHz quality audio. With a front side bus of 533MHz, the Endura AB915GM supports the latest Intel® Pentium® M and Celeron™ M high performance, low power processors. Flexible memory support is available with DDR2 533 and DDR2 400 dual channel memory with a maximum of 2GB. Eight USB 2.0 ports (seven with MM/SD slot) provide support for high-speed I/O peripherals with 40X the speed of USB 1.1. Two SATA ports facilitate data transfers at 150 MB/s for the SATA hard drives and optical drives. An ATA/100 port is available for legacy hard drives and optical drives.

Designed for Embedded Applications

All RadiSys Endura motherboards are designed for long life (5-7 years typical). Components are chosen to meet the more demanding needs of embedded applications such as 24/7 operation. RadiSys provides full product life cycle management, including integration support, revision control and sustaining support. Combined with the benefit of time-to-market designs, the RadiSys Endura product line enables customers to achieve fast time to money and low cost-of-ownership.

FEATURE SUMMARY

- Designed for low power dual video applications

Endura AB915GM Specifications

FEATURE	FUNCTION	DESCRIPTION
PROCESSOR	Type	Support for Intel® Pentium® M and Celeron™ M processors
	Socket	479-pin PGA socket
	FSB	533MHz and 400MHz system bus
CHIPSET	Type	Intel® 915GM Express chipset with Intel® ICH6-M
MEMORY	Type	Two sockets for DDR2-533 (PC2-4200) and DDR2-400 (PC2-3200) SODIMM modules
	Capacity	Up to 2GB of system memory
	Flash	MM/SD card slot (only on ABW03 and ABF03)
VIDEO	Type	Integrated Intel® GMA900 (Graphics Media Accelerator)
	Resolution	DVI: 1600 x 1200 UXGA at 60Hz, LVDS: 1920 x 1200 WUXGA
	LVDS	On-board 18-bit dual channel LVDS flat panel interface
	DVI	Two on-board DVI interfaces, DVI-I and DVI-D (analog via DVI-I interface)
AUDIO	Type	Intel® High Definition Audio subsystem using Sigmatel STAC9200 audio codec providing two channel stereo audio
	Connectors	Two auto-sensing jack sockets on the rear I/O panel and three ATAPI connectors for CD Input, Line Out and Mic In
ETHERNET	Controller	Single 10/100 Ethernet using integrated MAC and Intel 82562GZ transceiver or single Gigabit Ethernet using Intel 82573V PCI Express Ethernet controller
EXPANSION	PCI Express	Two x1 PCI Express slots
	PCI	Two 32-bit, 33MHz bus master PCI slots
	Mini Card	PCI Express Mini Card slot
POWER MANAGEMENT	ACPI	ACPI 2.0 supporting states S0, S3 (suspend to RAM), S4, S5 and C0, C1, C2, C3
SYSTEM MANAGEMENT	System Monitoring	Voltage, temperature and fan monitoring (3 fans)
		Lithium cell voltage monitoring
		Automatic fanspeed control based on thermal

		monitoring
	Watchdog	Programmable watchdog timer
	Management	Product Identification Block
	SMBus	SMBus header
POWER SUPPLY	Type	Support for hard- and soft- switched power supplies Supports either ATX and ATX12V power supplies
	Connector	2 x 10 power connector
BATTERY	Lithium coin cell (5 years operating life typical)	
BIOS	Customizable Phoenix FirstBIOS™ notebook Pro-based	
	Includes video BIOS and network boot	
	Customizable logo and BIOS settings	
I/O	USB	Eight USB 2.0 ports – four on rear I/O panel and four on headers (ABW00 and ABF00 have three and ABGD00 has four headers)
	Firewire	IEEE 1394b available on ABF00 product SKU
	GPIO	13-bit General Purpose I/O header with LCD character display support
	Serial Ports	Not supported
	Parallel Port	Not supported
DISKS	SATA	Two Serial ATA (SATA) headers
	IDE	One Ultra ATA100 interface
	FDD	Only supported via a USB port
OPERATING SYSTEMS	Windows XP	
	Windows XPe	
	Windows 2000	
	Red Hat Enterprise Linux WS v3	
	Novell SUSE Linux Professional 9.2	
	Knoppix Linux 3.7	
SAFETY COMPLIANCE	Evaluated in accordance with UL60950, EN60950 and IEC60950	
EMC COMPLIANCE	Evaluated in accordance with EN55022, EN55024 and FCC Part 15 Class B	
PHYSICAL SPECIFICATIONS		
ENVIRONMENT	Temperature	Operating 0°C to 70°C

Storage

-40°C to 85°C

Relative Humidity

5% to 95% non-condensing

Ordering Information

Call for pricing and availability. Refer to the order codes below.

DESCRIPTION:

AB915GM FlexATX with Gigabit Ethernet, single DVI and IEEE 1394b, RoHS
PRODUCT CODE: ABF03-0-0

AB915GM FlexATX with 10/100 Ethernet and single DVI, RoHS
PRODUCT CODE: ABW03-0-0

AB915GM FlexATX with Gigabit Ethernet and dual DVI, RoHS
PRODUCT CODE: ABGD03-0-0

I/O Shield for ABW03 and ABGD03, RoHS
PRODUCT CODE: ATX AB IOSHLD

I/O Shield for ABF03, RoHS
PRODUCT CODE: ATX-F AB IOSHLD

Fansink for AB915GM, RoHS
PRODUCT CODE: FNSNK AB915GM R



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