



Features

- Legacy migration solution
- Dual Ethernet – Gigabit and 10/100BaseT
- 4 COM, 4 USB, audio
- SATA, IDE, Compact Flash
- Mini-PCIe socket
- PC/104-Plus expansion
- Full-featured Atom™ platform



Choose Ampro by ADLINK™ LittleBoard™ 735 for...

Migrating legacy EBX systems to the latest lowest-power Atom™ platform.

Description

Based on Intel's Navy Pier platform with Atom™ CPU and 945GSE chipset, the Ampro by ADLINK™ LittleBoard™ 735 provides a feature-rich mid-performance SBC for a wide range of legacy-friendly applications. Featuring the PC/104-Plus expansion interface for legacy PC/104 and PC/104-Plus modules, this SBC is well-rounded with dual Ethernet, CRT and Flat Panel Video, 4 serial ports, 4 USB ports, SATA and IDE interfaces, Compact Flash socket, Mini-PCI Express socket, high definition audio and GPIO support as an easy upgrade from older EBX SBCs.

Specifications

Processor

1.6GHz Atom™ N270
 Cache – 512kB Level 2
 Chipset – Intel® 945GSE
 FSB – 533MHz
 System Controllers – PC-compatible DMA and interrupt controllers and timers
 Real Time Clock – Battery-backed RTC / CMOS
 Watchdog Timer
 Powerfail Reset – Triggers when key voltage drops below predetermined threshold

Memory

DRAM – Up to 2GB DDR533 SODIMM

Bus Interface

PC/104-Plus (PCI and ISA)

I/O

EIDE – Single Enhanced Ultra DMA
 Compact Flash Socket on primary IDE
 SATA – 2 devices
 Mini-PCI Express Socket
 Serial – 4 ports, two are RS232/422/485

Parallel-floppy shared
 USB – 7 USB 2.0 ports
 Keyboard/Mouse – PS/2 interface
 HD Audio – AC97 speaker, mic, headphone
 GPIO – Eight general-purpose digital I/O pins

Network Interface

Ethernet – Dual; one Intel® 82574IT Gigabit Ethernet on PCIe x1, one Intel® 82562 10/100BaseT

Video Interface

Controller – Integrated
 Intel® GMA 950 core
 3D and 2D engine
 HW hardware video decode
 18-bit LVDS, dual channel
 Dual display with independent pipes
 CRT via chipset DACs

Software & Development Tools

OS Support – Ampro by ADLINK™ Embedded Linux Windows® CE 6.0, 5.0, XP, XPe
 (See website for details)
 BIOS – AMI with ACPI 2.0

Mechanical

Size – 146x203mm (5.75x8.00"); EBX form factor
 Power Requirements – (with 2GB RAM, 100% Loaded)
 – 2.4A @5V
 Environmental
 –Temperature (100 LFM system air flow)

- Standard: –20° to +70°C
- Extended: –40° to +80°C
- Storage: –55° to +85°C

 Board Thickness - .093" (2.36mm)

Ordering Information

Model Number	Description/Configuration
LB-735-R-16	LittleBoard™ 735, 1.6 GHz Atom™ CPU, 0MB RAM, Video, Ethernet
LB-735-L-16	1.6 GHz QuickStart Kit (R-16 board, 1GB RAM, Cable Kit, Software)
LB-735-X-01	LittleBoard™ 735 Cable Kit