LittleBoard™ 735

Atom™ EBX Single Board Computer
Feature Rich, Legacy Friendly

Features

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

EXTREME RUGGED

Choose the Ampro by ADLINK™ LittleBoard™ 735 for…

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

Description

Based on the Intel® 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 a 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, PCIe Mini Card socket, High Definition Audio and GPIO support for an easy upgrade from older EBX SBCs.

Specifications

Processor

CPU – 1.6GHz Atom™ N270
Cache – 512KB Level 2
DRAM – Up to 2GB DDR2 667 SODIMM
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

Bus Interface

PC/104-*Plus* (PCI and ISA)

I/O

PATA – Single Ultra DMA
CompactFlash socket
SATA – 2 devices
PCIe Mini Card socket
Serial – 4 ports, two are RS-232/422/485
Parallel-floppy shared

USB – 7 USB 2.0 ports
Keyboard/Mouse – PS/2 interface
HD Audio – AC97 High Definition Audio
GPIO – Eight general-purpose digital I/O pins

Network Interface

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

Video Interface

Controller – Integrated
Intel® GMA 950 core
Dual Channel 18-bit LVDS
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
BIOS – AMI with ACPI 2.0

Mechanical

Size – 203x146mm (8.00x5.75"); EBX form factor
Power Requirements – (with 2GB RAM, 100% Loaded) – 2.4A @5V
Temperature (100 LFM system air flow)
- Standard: –20°C to +70°C
- Extended: –40°C to +80°C
- Storage: –55°C 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, passive heatsink for -20°C to +70°C
LB-735-F-16	LittleBoard™ 735, 1.6 GHz Atom™ CPU, 0MB RAM, video, Ethernet, heatsink w/ fan for -40°C to +80°C
LB-735-L-16	1.6 GHz QuickStart Kit (R-16 board, 1GB RAM, cable kit, software, passive heatsink)