



Features

- Legacy migration solution
- Dual Gigabit Ethernet
- 4 COM, 6 USB, audio
- SATA, IDE, Compact Flash
- PCIe Mini Card socket
- PC/104-Plus expansion
- Full-featured Atom™ platform



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, 6 USB ports, SATA and IDE interfaces, CompactFlash 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 – 6 USB 2.0 ports (7th available through PCIe Mini Card socket)

Keyboard/Mouse – PS/2 interface

Audio – High Definition Audio

GPIO – Eight general-purpose digital I/O pins

Network Interface

Ethernet – Dual Intel® 82574IT Gigabit Ethernet

Video Interface

Controller – Integrated
 Intel® GMA 950 core
 Dual Channel 18-bit LVDS
 Dual display with independent pipes
 CRT via chipset DACs
 TV-Out

Software & Development Tools

OS Support – Linux, Windows® CE 6.0/5.0/XP/XPe
 BIOS – AMI with ACPI 2.0

Mechanical and Environmental

Size – 203 x 146 mm (8.00 x 5.75"); EBX form factor
 Power Requirements – 2.4A @5V (with 2GB RAM, 100% loading)
 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" (2.36 mm)

Ordering Information

Model Number	Description/Configuration
LB-735-R-17	LittleBoard™ 735, 1.6 GHz Atom™ N270, PC/104-Plus, Dual Ethernet, SATA, CompactFlash, Video, 0MB DDR RAM, passive heatsink -40°C to +70°C, RoHS
LB-735-R-17-G	LittleBoard™ 735, 1.6 GHz Atom™ N270, PC/104-Plus, ENIG PCB, Dual Ethernet, SATA, CompactFlash, Video, 0MB DDR RAM, passive heatsink -40°C to +70°C, RoHS
LB-735-P-17	LittleBoard™ 735, 1.6 GHz Atom™ (clockdown to 800MHz) CPU, 0MB DDR RAM, video, Ethernet, passive heatsink -40°C to +80°C
LB-735-F-17	LittleBoard™ 735, 1.6 GHz Atom™ CPU, 0MB RAM, video, Ethernet, heatsink w/ fan for -40°C to +80°C
LB-735-L-17	LittleBoard™ 735, 1.6 GHz QuickStart Kit, R-16 Board w/1GB DDR-RAM, cables, passive heatsink documentation, software, RoHS

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