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CoreModule® 745

Atom™ PC/104-*Plus* Single Board Computer with ICH8-M Chipset



Features

- Intel® Atom™ N450/D510 1.66GHz processors (D410 optional)
- Up to 2GB single channel DDR2 SDRAM
- PC/104-*Plus* Expansion
- Intel® 82574IT Gigabit Ethernet, 3 COMs, 4 USB, 4GB SSD onboard
- Integrated graphics DirectX 9 controller at 200MHz
- Single Channel 18-bit LVDS and Analog VGA

EXTREME RUGGED

Choose Ampro by ADLINK™ CoreModule 745 for…

Low power performance Atom™ platform targeting ExtremeRugged™ and space-constrained applications.

Description

Ampro by ADLINK™ CoreModule® 745 SBC uses an Intel® Luna Pier platform with 1.66GHz Atom™ N450/D510 Pineview-M/D processor and ICH8M I/O Control Hub. It includes 4 USB 2.0, two SATA II, 3 serial ports, Gigabit Ethernet, 4GB SSD onboard, SMBus, LPC, and 8 GPIO.

Specifications

Core System

CPU – 1.66GHz Intel® Atom™ SC N450/DC D510 Processor (D410 optional)
Chipset – Intel® ICH8-M I/O Control Hub
Cache – 512kB L2 Cache
Memory – Up to 2GB DDR2 667 single SODIMM
FSB – 1066MHz
BIOS – AMI with CMOS backup in 16Mbit SPI Flash
Hardware Monitor – DC voltages, CPU temperature

Bus Interface

PC/104-*Plus*, SMBus, LPC

I/O

SATA – 2 SATA II
SSD – 4GB
USB – 4 USB 2.0 ports
Serial – 2 RS-232 & 1 RS-232/422/485
GPIO – 8

Network Interface

Ethernet - Intel® 82574IT Gigabit Ethernet Controller

Video Interface

Integrated Direct X9 graphics controller in Intel® Atom™ Pineview-M/D processor
Single Channel 18-bit LVDS supports up to 1600 x 1200 max resolution
Analog VGA supports up to 1900x1440 max resolution

Software & Development Tools

OS Support – Linux / Windows® CE 6.0 / XPe / VxWork 6.7 / QNX 6.4*
BIOS – AMI with ACPI 2.0
*Note: Available upon request or contact us for additional software support

Power Specifications

Input Power - AT mode (5V DC +/-5%)
Power States - Supports S0

Mechanical

Size – 106mm x 96mm, PC/104-*Plus* form factor
Board Thickness – 0.093" (2.36mm thick)
Temperature
- Standard: -20°C to +70°C
- Extended: -40°C to +85°C
- Storage: -55°C to +85°C

Humidity – 90% at 60°C
Shock -
- Non-operation: 50G peak-to-peak, 11ms duration, MIL-STD-202G Method 213B

Vibration –
- Operation: 11.95 Grms, 50-2000 Hz, each axis, MIL-STD-202G Method 214A

Ordering Information

Model Number	Description/Configuration
CM-745-R-17	CoreModule™ 745, Intel® Atom™ SC N450, 1.6GHz, 0MB RAM, 4GB SSD, Video, Gigabit Ethernet, PC/104-*Plus*
CM-745-R-19	CoreModule™ 745, Intel® Atom™ DC D510, 1.6GHz, 0MB RAM, 4GB SSD, Video, Gigabit Ethernet, PC/104-*Plus*
CM-745-L-17	1.6GHz QuickStart Kit (R-17 SBC, 1GB RAM, Cable kit, Software)
CM-745-L-19	1.6GHz QuickStart Kit (R-19 SBC, 2GB RAM, Cable kit, Software)

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