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CoreModule® 745

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



Features

- Intel® Atom™ Processor N455/D525 (D425 optional)
- Up to 2GB Single Channel DDR3 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

The Ampro by ADLINK™ CoreModule® 745 SBC uses an Intel® Luna Pier platform with 1.66GHz Atom™ N455/D525 Pineview-M/D processor and ICH8M I/O Control Hub. It includes 4 USB 2.0, two SATA 3 Gb/s, 3 serial ports, Gigabit Ethernet, 4GB SSD onboard, SMBus, LPC, and 8 GPIO.

Specifications

Core System

CPU – Intel® Atom™ N455, 1.66GHz, 6.5 W (1 core/2 threads)
– Intel® Atom™ D525, 1.8GHz, 13 W (2 cores/4 threads)
– Intel® Atom™ D425, 1.8GHz , 10 W (1 core/2 threads)(optional)

Cache – 1MB, 8-way L2 cache for D525 dual-core processor
– 512KB, 8-way L2 cache for N455/D425 single-core processor

Chipset – Intel® ICH8-M I/O Control Hub

Memory – Up to 2GB DDR3 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* (ISA and PCI), SMBus, LPC

I/O

SATA – 2 SATA 3 Gb/s

Storage - Onboard 4GB SSD

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

Intel® GMA 3150. DirectX 9 compliant Pixel Shader v2.0

Single Channel 18-bit LVDS

Analog VGA

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 and Environmental

Size – 106 mm x 96 mm, PC/104-*Plus* form factor

Board Thickness – 0.093" (2.36 mm 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-operating: 50G peak-to-peak, 11ms duration, MIL-STD-202G Method 213B

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

Ordering Information

Model Number	Description/Configuration
CM-745-R-27	CoreModule™ 745, Intel® Atom™ SC N455, 1.66GHz, 0MB RAM, 4GB SSD, Video, Gigabit Ethernet, PC/104-*Plus*
CM-745-R-29	CoreModule™ 745, Intel® Atom™ DC D525, 1.8GHz, 0MB RAM, 4GB SSD, Video, Gigabit Ethernet, PC/104-*Plus*
CM-745-L-27	1.6GHz QuickStart Kit (R-17 SBC, 1GB RAM, Cable kit, Software)
CM-745-L-29	1.6GHz QuickStart Kit (R-19 SBC, 2GB RAM, Cable kit, Software)

This datasheet has been downloaded from http://www.digchip.com at this page

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