



### 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



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

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