



### Features

- Intel® Atom™ Processor N450 1.66GHz
- Onboard Single Channel DDR2 SDRAM
- PC/104-Plus Expansion
- Integrated graphics DirectX 9 controller at 200MHz
- Single Channel 18-bit LVDS and Analog VGA



### Choose Ampro by ADLINK™ CoreModule™ 740 for...

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

### Description

The Ampro by ADLINK™ CoreModule® 740 SBC uses an Intel® Luna Pier platform with 1.66GHz Atom™ N450 Pineview-M processor and ICH8M I/O Control Hub. It includes USB 2.0, Single channel IDE, LPC, Floppy, Parallel, Serial ports, LPT, Stack-through connectors and integrated graphics in a compact ISM form factor SBC.

### Specifications

#### Core System

CPU - 1.66GHz Intel® Atom™ Processor N450 (1 core / 2 threads)  
 Cache - 512KB L2 Cache  
 Memory - On board 512MB soldered DDR2 RAM for rugged applications  
 Chipset - Intel® ICH8-M I/O Control Hub  
 FSB - 1066MHz  
 BIOS - AMI with CMOS backup in 16 Mbit SPI Flash  
 Hardware Monitor - DC voltages, CPU temperature

#### Bus Interface

PC/104-Plus (ISA and PCI) IDE, LPC, Parallel

#### I/O

USB - 2 USB 2.0 Ports  
 Floppy  
 Parallel  
 Serial - 2 RS-232  
 2 x GPIO  
 Keyboard/Mouse - PS/2 interface

#### Network Interface

Ethernet not supported

### Video Interface

Intel® GMA 3150, DirectX 9 compliant Pixel Shader v2.0  
 Single Channel 18-bit LVDS 1280 x 800  
 Analog VGA 1400 x 1050 @ 60Hz

### Software & Development Tools

OS Support - Linux, Windows® CE 6.0/XPe, VxWork 6.7, QNX 6.4  
 BIOS - AMI with ACPI 2.0

### Power Specifications

Input Power - AT mode (5V DC +/- 5%)  
 Power States - Supports S0, S5

### Mechanical and Environmental

Size - 90 x 96 mm (3.6 x 3.8"), Expanded PC/104-Plus form factor  
 Board Thickness - .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   |
|--------------------|---|
| <b>CM-740-R-16</b> | CoreModule™ 740, Intel® Atom™ N450, 1.6GHz, PC/104-Plus, 512MB soldered DDR2 RAM                        |
| <b>CM-740-L-16</b> | Quick Start Kit (CoreModule™ 740, 1.6 GHz, 512MB soldered DDR2 RAM, cable kit, software, documentation) |