



Features

- Gigabit Ethernet
- 4 USB, 8 GPIO
- IDE, Compact Flash
- SUMIT™ Expansion
- ISM™ Form Factor
- Ultra Low Power Atom™ SBC
- Single-board Solution



Choose Ampro by ADLINK™ CoreModule® 730 for...

Space-constrained systems targeting the lowest-power Atom™ chipset in the new ISM™ (Industry Standard Module) form factor, without a custom baseboard.

Description

Based on Intel's Menlow platform with Atom™ CPU and US15W system controller hub (SCH), the Ampro by ADLINK™ CoreModule® 730 provides a midperformance control and compute platform for a wide range of applications. Featuring the new SUMIT™ expansion interface for legacy I/O and PCI Express support, this SBC is well-rounded with Gigabit Ethernet, CRT and Flat Panel Video, 4 USB ports, IDE interface, Compact Flash socket, GPIO support in a tiny 90x96mm form factor, and optional 4 serial port add-on PC/104 card.

Specifications

Processor

Choice of
 -1.6GHz Atom™ Z530
 -1.1GHz Atom™ Z510
 Cache – 512kB Level 2
 Chipset – Intel® US15W SCH
 FSB – 533 / 400MHz
 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

Memory

DRAM – Up to 2GB DDR533 SODIMM

Bus Interface

SUMIT-AB (PCIe, LPC, SPI, I2C, USB), SUMIT-A only for R-11 model

I/O

EIDE – Single Enhanced Ultra DMA
 Compact Flash Socket on primary IDE
 USB – 4 USB 2.0 ports (plus 3 on SUMIT™)
 GPIO – Eight general-purpose digital I/O pins

Network Interface

Ethernet – Intel® 82574IT Gigabit Ethernet on PCIe x1

Video Interface

Controller - Integrated
 Intel® GMA 500 ultra low power core
 3D and 2D engine
 HD hardware video decode
 18/24-bit LVDS, up to 112MHz pixel clock
 Dual display with independent pipes
 CRT via Chronitel CH7317 RGB DAC

Software & Development Tools

OS Support – Ampro by ADLINK™ Embedded Linux Windows® CE 6.0, 5.0, XP, XPe
 (See website for details)
 BIOS – AMI BIOS

Mechanical

Size – 90x96mm (3.6x3.8"); ISM™ form factor
 Power Requirements – (with 2GB RAM, 100% loading)
 - 1.6GHz: 0.7A @ 5V
 - 1.1GHz: 0.6A @ 5V
 Environmental
 -Temperature (100 LFM system air flow)
 • Standard: -20° to +70°C
 • Extended: -40° to +85°C
 • Storage: -55° to +85°C
 Board Thickness – .093" (2.36mm)

Ordering Information

Model Number	Description/Configuration
CM-730-R-11	CoreModule® 730, 1.1 GHz Atom™ CPU, 0MB RAM, Video, Ethernet, SUMIT-A
CM-730-R-16	CoreModule® 730, 1.6 GHz Atom™ CPU, 0MB RAM, Video, Ethernet, SUMIT-AB
CM-730-L-11	1.1 GHz QuickStart Kit (R-11 board, 1GB RAM, Cable Kit, Software)
CM-730-L-16	1.6 GHz QuickStart Kit (R-16 board, 1GB RAM, Cable Kit, Software)
CM-730-X-01	CoreModule® 730 Cable Kit
MM-SIO	MiniModule™ Serial I/O Card, Stackable Legacy I/O SUMIT™ Board for CoreModule® 730