



Features

- Ultra low power Atom™ SBC
- Gigabit Ethernet
- 4 USB, 8 GPIO
- IDE, CompactFlash
- SUMIT™ expansion
- ISM™ form factor
- Single-board Solution



Choose the 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 the Intel® Atom™ CPU and US15W System Controller Hub (SCH), the Ampro by ADLINK™ CoreModule® 730 provides a mid-performance 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 tiny 90x96mm footprint SBC is well-rounded with Gigabit Ethernet, CRT and flat panel video, 4 USB ports, IDE interface, CompactFlash socket, GPIO support, and optional 4 serial port PC/104 add-on card.

Specifications

Core System

Choice of
 -1.6GHz Atom™ Z530
 -1.1GHz Atom™ Z510
 Cache – 512KB Level 2
 DRAM – Up to 2GB DDR2 533 SODIMM
 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

Bus Interface

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

I/O

PATA – Single Ultra DMA IDE (1 drive)
 CompactFlash socket
 USB – 4 USB 2.0 ports (plus 4 on SUMIT™)
 GPIO – Eight general-purpose digital I/O pins

Network Interface

Ethernet – Intel® 82574IT Gigabit Ethernet on PCIe x1

Video Interface

Controller - Integrated on US15W SCH
 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 Chrontel CH7317 RGB DAC

Software & Development Tools

OS Support – Ampro by ADLINK™ Embedded Linux Windows® CE 6.0, 5.0, XP, XPe
 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
 Temperature (100 LFM system air flow)
 • Standard: -20°C to +70°C
 • Extended: -40°C to +85°C
 • Storage: -55°C 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-15	CoreModule® 730, 1.6 GHz Atom™ CPU, 0MB RAM, Video, Ethernet, without SUMIT
CM-730-R-16	CoreModule® 730, 1.6 GHz Atom™ CPU, 0MB RAM, Video, Ethernet, SUMIT-AB
CM-730-L-16	1.6 GHz QuickStart Kit (R-16 SBC, 1GB RAM, cable kit, software)
MM-SIO	MiniModule™ Serial I/O Card, stackable legacy I/O SUMIT™ board for CoreModule® 730