



Features

- Up to 4GB DDR2 memory
- True PICMG COM Express™ COM.0 compliance
- PCI Express, SATA II
- ACPI 2.0 with S3 support
- x16 Graphics on the baseboard
- 50% thicker PCB



Choose Ampro by ADLINK™ COM 840 for ...

Modular, ultra high performance applications that require high end graphics.

Description

Ampro by ADLINK™ COM 840 is a small, ultra high performance module, supporting Intel® Core™2 Duo processor, with Gigabit Ethernet and high end chipset graphics or x16 PCI Express graphics on the baseboard.

Specifications

Processor

Choice of

- 1.6GHz Core™2 Duo L7500
- 1.06GHz ULV Core™2 Duo U7500

Cache – 4MB, 1MB Level 2
Chipset – Intel® GME965/ICH8
FSB – 800MHz
System Controllers – PC-compatible DMA and interrupt controllers and timers
Watchdog Timer

Memory

DRAM – Up to 4GB DDR2 667 SODIMM

Bus Interface

PCI Express 5 x1, 1x16, PCI and LPC

I/O

EIDE – Single PCI-bus Enhanced Ultra DMA 66/100 Synchronous IDE Interface supports up to two hard drives
SATA II – 2 ports
USB – 8 USB 2.0 ports
Audio – AC97/HD

Network Interface

Ethernet – One Intel® 82566 Gigabit port

Video Interface

Intel® GMA X3100, 384MB (DVM T 4.0)
3D and 2D engine, HW rotation
Intel® Clear Video Technology: MPEG-2 HW acceleration and decoding
WMV9 HW acceleration, sharpness enhancement, film mode detection
Dual panel display with independent pipes, HD TV support, supports PCIe x16 graphics
CRT resolution up to 2048 x 1536 @ 60Hz

Software & Development Tools

OS Support – Ampro by ADLINK™ Embedded Linux®, Windows® CE 6.0, 5.0, XP, XPe, VxWorks® 6.6 (see website for details)
BIOS – AMI with ACPI 2.0 including S3

Mechanical

Size – 95x125mm (3.7x4.9”); COM Express™ form factor, type II pinout
Power Requirements (with 2GB RAM, 100% Loaded)
-1.6GHz 1.8A @ 12V
-1.06GHz 0.8A @ 12V
Environmental
-Temperature (with adequate thermal solution and 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
COM-840-R-32	COM 840, 1.6GHz Core™2 Duo CPU, 4MB L2 Cache, PCI Express, PCI, LPC
COM-840-R-12	COM 840, 1.06GHz ULV Core™2 Duo CPU, 4MB L2 Cache, PCI Express, PCI, LPC, 2 SODIMM sockets
COM-840-R-11	COM 840, 1.06GHz ULV Core™2 Duo CPU, 4MB L2 Cache, PCI Express, PCI, LPC, 1 SODIMM socket
COM-840-L-32	1.6GHz QuickStart Kit (R-32 Module, 2GB RAM, Software, Documentation, COM Express Baseboard, Fansink)
COM-840E-L-32	1.6GHz QuickStart Kit (R-32 Module, 2GB RAM, Software, Documentation, EBX Baseboard, Fansink)
COM-840E-L-12	1.06GHz QuickStart Kit (R-12 Module, 2GB RAM, Software, Documentation, EBX Baseboard, Fansink)