EXTREME RUGGED

Ampro COM 840
Core™ 2 Duo Computer-on-Module
Blazing Performance, Graphics, Power Management

Choose Ampro COM 840 for …
Modular, ultra high performance applications that require high end graphics.

Description
Ampro 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.

COM 840 is compatible with the COM Express Plug-n-Play initiative for true PICMG COM.0 compliance.

RoHS ✔

- 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
- COM Express Plug-n-Play Initiative

Ordering Information

MODEL	DESCRIPTION
COM-840-R-32	1.6GHz Core™ 2 Duo CPU, 4MB L2 Cache, PCI Express, PCI, LPC
COM-840-L-32	1.6GHz QuickStart Kit (R-32 SBC, 2GB RAM, Software, Documentation, Baseboard, Fansink)
COM-840E-L-32	1.6GHz QuickStart Kit (R-32 SBC, 2GB RAM, Software, Documentation, EBX Baseboard, Fansink)

Specifications

PROCESSOR
- 1.6GHz Core™ 2 Duo L7500
- Cache – 4MB, 1MB Level 2
- Chipset – Intel GM E965 / 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 – Gigabit

GRAPHIC INTERFACE
- Intel® GMA X3100, 384MB (DVMT 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 Embedded Linux®, Windows® CE 6.0, 5.0, XP, XPe (See Web site 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)
  - 1.77A@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)

For more information, pricing, and details on volume discounts, please call us at 1. 800. 966. 5200 or +1. 408. 360. 0200.
We'll immediately connect you to your local distributor.

Don't see the product you need? Contact us at 1. 800. 966. 5200 or +1. 408. 360. 0200 for information about our semi-custom and custom solutions.

www.ampro.com