Ampro COM 830

Core™ Duo Computer-on-Module
Blazing Performance, Graphics, Power Management

Choose Ampro COM 830 for …

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

Description

Ampro COM 830 is a small, ultra high performance module, supporting Intel® Core™ Duo processor, with Gigabit Ethernet and high end chipset graphics or x16

graphics on the baseboard.

COM 830 is compatible with the COM Express Plug-n-Play initiative for true PICMG COM.0 compliance.

- Up to 4GB DDR2 Memory
- True PICMG COM Express COM.0 compliance
- PCI Express, SATA
- ACPI 2.0 with S3 support
- x16 Graphics on the baseboard

Ordering Information

MODEL	DESCRIPTION
COM-830-R-10	1.07GHz Celeron® M CPU, 1MB L2 Cache, PCI Express, ACPI
COM-830-R-30	1.2GHz Core™ Duo CPU, 2MB L2 Cache, PCI Express, ACPI
COM-830-L-10	1.07GHz QuickStart Kit (R-10 module, 1GB RAM, Software, Documentation, COM Express Baseboard)
COM-830-L-30	1.2GHz QuickStart Kit (R-30 module, 1GB RAM, Software, Documentation, COM Express Baseboard)

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.

Specifications

PROCESSORS
- Choice of
  – 1.2GHz Core™ Duo U2500
  – 1.07GHz Celeron® M 423
- Cache – 2MB, 1MB Level 2
- Chipset – Intel® 945GME/ICH7M
- FSB – 667MHz
- System Controllers – PC-compatible DMA and interrupt controllers and timers
- Watchdog Timer

MEMORY
- DRAM – Up to 4GB DDR2 533 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 – 2 ports
- USB – 8 USB 2.0 ports
- Audio – AC97/HD

NETWORK INTERFACE
- Ethernet – Gigabit

GRAPHIC INTERFACE
- Intel® GMA 950, 224 MByte 64 Bit Video RAM (DVMT 3.0), Dynamic Display Modes for flat-panel, wide-screen and Digital TV support
- Dual panel display with two independent pipelines
- Flat panel interface, resolutions 640x480 up to 1920x1200
- HD hardware motion compensation to support HD high-bit-rate MPEG2 media playback
- HDTV (1080i/p) support
- CRT resolutions up to 2048x1536 @ 75 Hz, including 1920x1080 @ >85 Hz (HDTV)
- 2x SDVO (shared with PCIe x16 pins)
- Onboard TV encoder supports HDTV (420p, 720p and 1080i), Component and S-Video for TV-Out

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 512MB RAM, 100% Loaded)
  – 1.2GHz   2.07A@12V
  – 1.07GHz   1.9A@12V
- Environmental
  – Temperature (with adequate thermal solution and air flow)
    • Standard: 0° to +60℃
    • Storage: −20° to +75℃
- Board Thickness – .062" (1.6mm)

APR.08

www.ampro.com