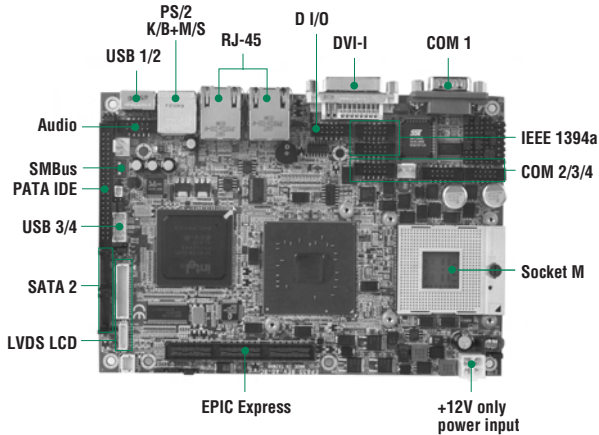


# EP830

Socket M Intel® Core™ 2 Duo EPIC SBC with DVI-I/LCD,  
Firewire and EPIC Express Interface

# 4

Embedded Computing Platforms



## System

CPU	Socket M (478-pin) for Intel® Core™2 Duo/Core™ Duo/ Core™ Solo/Celeron® M processor with FSB 533/667MHz; ULV Intel® Celeron® M (423) 1.06 GHz/1MB processor for onboard option
System Memory	1 x 200-pin DDR2 SODIMM max. up to 2GB
Chipset	Intel® 945GME+ICH7M
BIOS	Phoenix-Award 4Mbit with RPL/PXE LAN Boot ROM, SmartView and customer CMOS backup
SSD	CompactFlash™ type-II socket
Watchdog Timer	Reset supported; 255 levels
Expansion Interface	EPIC Express 3 banks interface for four x1 or one x4 PCIe (optional)
Battery	Lithium 3V/196mAH
Size	165 x 115 mm
Temperature	0~60°C, operation
Operation Humidity	10% ~ 95% relative humidity, non-condensing

## I/O

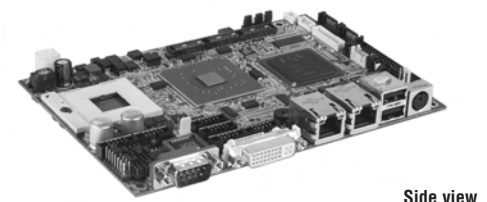
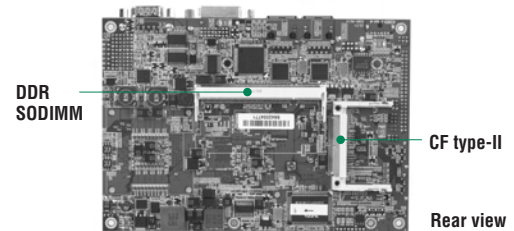
MIO	1 x PATA-100 IDE, 2 x SATA-150, 1 x PS/2 K/B + M/S, 4 x COM (RS-232) with +5V/+12V powered
Ethernet	2 Realtek 8111B for PCIe Gigabit Ethernet
Audio	AC'97 codec audio
USB	4 USB 2.0 ports (2 via box-headers)
Firewire	2 IEEE 1394a ports
SMBus	System Management Bus for advanced monitoring/control interface
Digital I/O	3 channel IN and 5 channel OUT

## Display

Chipset	Intel® 945GME GMCH Gen 3.5 integrated graphic engine
Memory Size	Max. up to 224MB frame buffer sharing system memory
Resolution	CRT: 2048 x 1536; LVDS LCD: 1600 x 1200
Output Interface	* DVI-I connector for DVI and CRT output * LVDS LCD with 18/36/24/48-bit channel mode

## Features

- ▶ Socket M for Intel® Core™2 Duo/Core™ Duo/ Core™ Solo processor with FSB 533/667MHz
- ▶ Intel® 945GME+ICH7M chipset
- ▶ DVI-I interface for both CRT and DVI external display devices
- ▶ 4 COM ports, 4 USB 2.0 and 2 IEEE 1394a ports
- ▶ EPIC Express interface for PCIe expansion
- ▶ +12V only supported



## Packing List

- Quick installation guide
- Manual, driver, utility CD and cable kit (refer to cable list in chapter 9)

## Ordering Information

Standard	
EP830DGGAF	Socket M EPIC SBC with DVI-I/LVDS LCD, dual Gigabit Ethernet, AC'97 audio, 4 COM ports and firewire
Optional	
EP830DGGAF-1G	EPIC SBC with ULV423 Intel® Celeron® M 1GHz onboard, DVI-I/LVDS LCD, dual Gigabit Ethernet, AC'97 audio, 4 COM ports and firewire



ECP Services and Solutions

System-on-a-Module Solutions

Mini ITX SBC

3.5" Capa Boards

EPIC Boards

5.25" Petit Boards

Half-size CPU Cards, Backplanes

PCI/104 Modules

Mini PCI Modules

Accessories

Remote Field Controllers

Embedded eBOX Systems & MicroBoxes

Power Supplies

Appendix