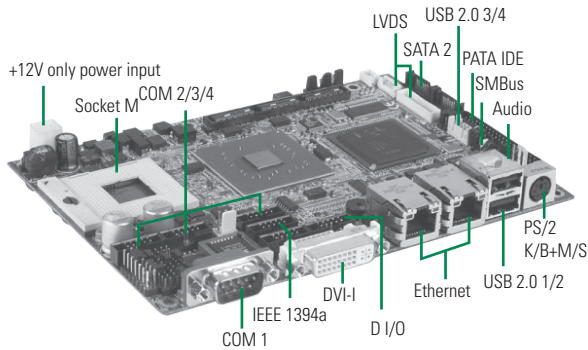


EP830

Socket M Intel® Core™2 Duo EPIC SBC with Intel® 945GME + ICH7M Chipset, DVI-I/LVDS and Firewire



System

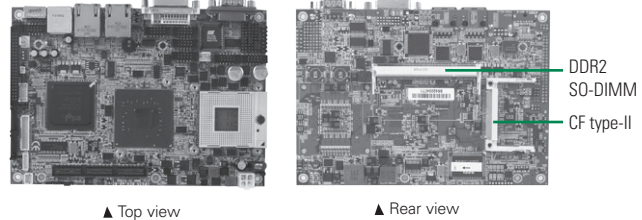
CPU	Socket M for Intel® Core™2 Duo/ Core™ Duo/ Core™ Solo/ Celeron® M processors with FSB 533/667 MHz; Intel® Celeron® M processor ULV 423 onboard
System Memory	1 x 200-pin SO-DIMM supports DDR2-533/667 max. up to 2 GB
Chipset	Intel® 945GME + ICH7M
BIOS	Phoenix-Award
SSD	1 x CompactFlash™ type-II
Watchdog Timer	255 levels, 1-255 sec.
Expansion Interface	N/A
Battery	Lithium 3V/220 mAh
Power Input	2 x 2-pin connector +12V DC-in only AT Auto Power ON function supported
Power Requirements	Intel® Core™2 Duo T7600 @2.33 GHz, 1 GB DDR2 Max. RMS: +12V @ 2.488A
Size	165 x 115 mm
Board Thickness	1.6 mm
Operating Temperature	0° ~ +60°C (32°F ~ 140°F), operation
Relative Humidity	10% ~ 95% relative humidity, non-condensing

I/O

MIO	1 x IDE; PATA-100 1 x PS/2 keyboard and mouse 3 x RS-232 (COM 2/3/4); with +5V/+12V powered 1 x RS-232/422/485 (COM 1); with +5V/+12V powered
SATA	2 x SATA-150
Hardware Monitoring	Detect CPU/system temperature, voltage and fan speed
Ethernet	2 ports as 10/100/1000Mbps support Wake-on-LAN, RPL/PXE Boot ROM with Realtek RTL8111B
Audio	AC'97 Codec audio as MIC-in/Line-in/Line-out/speaker-out with Realtek ALC655
USB	4 x USB 2.0
Firewire	2 x IEEE 1394a
SMBus	System Management Bus for advanced monitoring/control
Digital I/O	8 channels IN/OUT programmable

Features

- Socket M for Intel® Core™2 Duo/ Core™ Duo/ Core™ Solo processor with FSB 533/667 MHz
- DVI-I interface for both CRT and DVI external display devices
- 4 COM ports, 4 USB 2.0 and 2 IEEE 1394a ports



▲ Top view

▲ Rear view

Display

Chipset	Intel® GMA 950 graphics core
Memory Size	Intel® DVM 3.0 compliant
Display Interface	1 x LVDS; 18/24-bit single/dual channel 1 x DVI-I

Packing List

Standard		
Quick installation guide, user's manual/utility CD, accessory		
Accessories		
Part Number	Description	Qty
59308300000E	IEE1394 cable w/ bracket, P= 2.0 mm L=330 mm	1
59384500100E	Audio cable w/ bracket P=2.0 L=450 mm	1
59484500010E	44-44-40 pin IDE cable L=200 mm+200 mm	1
59382631000E	2 x USB 2.0 wafer cable w/ bracket L=180 mm	1
59384500200E	COM x 2 w/ bracket, P=2.0, L=250 mm	1
593826A0000E	SATA singal cable 500 mm	1
50784830200E	CPU heatsink w/ fan (41 x 41 mm)	1

Ordering Information

Standard	
EP830DGGAF	Socket M EPIC SBC with DVI-I/LVDS LCD, 2 10/100/1000 Mbps Ethernet, AC'97 audio, 4 COM ports and firewire
(P/N: E38B830100)	
Optional	
EP830DGGAF-1G	EPIC SBC with ULV423 Intel® Celeron® M 1GHz onboard, (fanless) DVI-I/LVDS LCD, 2 10/100/1000Mbps Ethernet, AC'97 audio, 4 COM ports and firewire
(P/N: E38B830101)	

SBC Services and Solutions

Systems on Modules

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Embedded SBCs >3.5" Capa

Embedded SBCs >Nano-ITX

Embedded SBCs >PC-ITX

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Industrial Motherboards

Slot CPU Cards

Accessories

Appendix