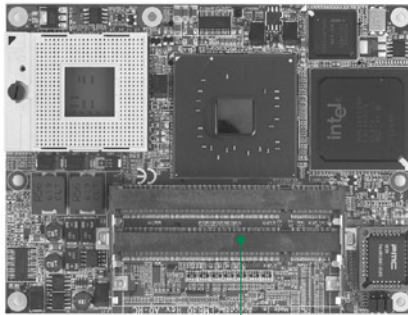


CEM830

Socket M Intel® Core™2 Duo COM Express™ Type 2 Module with Intel® 945GME + ICH7M Chipset



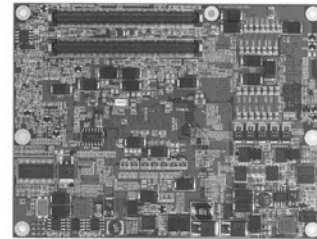
Double deck
DDR2 SO-DIMM

Intel® 945GME
LVDS/VGA
8 USB 2.0
HD-Link
Audio

Features



- Socket M Intel® Core™2 Duo processor with FSB 533/667 MHz
- Intel® 945GME + ICH7M chipset
- With high performance integrated graphics controller and discrete solution through PCIe x16 interface
- 19 lanes of PCI Express
- 8 USB 2.0 ports



▲ Rear view

System

CPU	Socket M for Intel® Core™2 Duo/ Core™ Duo/ Core™ Solo/ Celeron® M processors with FSB 533/667 MHz; Intel® Core™2 Duo processor L7400 and Celeron® M processor ULV 423 onboard
System Memory	2 x 200-pin SO-DIMM supports DDR2-533/667 max. up to 4 GB
Chipset	Intel® 945GME + ICH7M/ICH7M-DH
BIOS	Phoenix-Award
SSD	N/A
Watchdog Timer	255 levels, 1-255 sec.
Expansion Interface	1 x PCIe x16 graphics port supports for SDVO or PCIe x1 devices 3 x PCIe lanes support for 3 x PCIe x1 devices 4 x 32-bit PCI bus masters
Battery	N/A
Power Requirements	Intel® Celeron® M 440 @1.86 GHz, 2GB DDR2 Max. RMS: +5VSB @ 24mA, +12V @ 1.835A
Size	125 x 95 mm
Board Thickness	1.6 mm
Temperature	0°C - +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 LPC interface
SATA	2 x SATA-150
Hardware Monitoring	N/A
Ethernet	1 port as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Intel® 82573L
Audio	HD/AC'97 link interface to baseboard for external Codec
USB	8 x USB 2.0
SMBus	Yes
I ² C	1 x I ² C
GPIO	4 channels IN & 4 channels OUT

Display

Chipset	Intel® GMA 950 graphics Core
Memory Size	Intel® DVMT 3.0 compliant
Display Interface	1 x VGA 1 x LVDS; 18/24-bit single/dual channel

Packing List

Quick installation guide, user's manual/utility CD

Ordering Information

Standard	
CEM830VG	COM Express type-II module with socket M, (PN: E38D830102) VGA/LVDS LCD, 10/100/1000Mbps Ethernet
Optional	
CEB94000	ATX form factor baseboard
507CEM83020E	CEM830/820 heatspreader module for PGA type CPU
507CEM83030E	CEM830/820 heatspreader module for BGA type CPU
507CEM83040E	COM Express SoM cooling kit with fan
5078D830100E	COM Express SoM low profile cooling kit with fan
5078D830200E	COM Express SoM cooling kit without fan

SBC Services and Solutions

System on Modules

Embedded SBCs > EPIC

Embedded SBCs > 3.5" Capa

Embedded SBCs > Pico-ITX

Embedded SBCs > PC/104

Industrial Motherboards

Slot CPU Cards

Accessories

Appendix