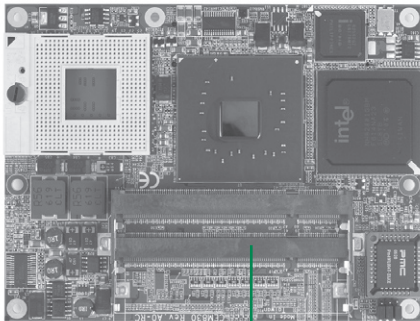


# CEM830

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



Double deck DDR2 SO-DIMM



Low Power DualView

## 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° ~ +60°C (32°F ~ 140°F), operation
Relative Humidity	10% ~ 95% relative humidity, non-condensing

## I/O

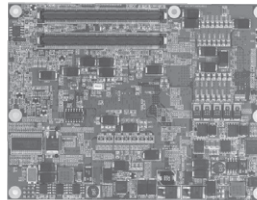
MIO	1 x IDE; PATA-100 1 x LPC interface
SATA	2 x SATA-150
Hardware Monitoring	N/A
Ethernet	1 port as 10/100/1000Mbps supports Wake-on-LAN, RPL/PXE Boot ROM with Intel® 82573L
Audio	HD/AC'97 link interface to baseboard for external Codec
USB	8 x USB 2.0
SMBus	Yes
i°C	1 x i°C
GPIO	4 channels IN & 4 channels OUT

## Display

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

## 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

## Packing List

Quick installation guide, user's manual/utility CD

## Ordering Information

Standard	
CEM830VG	COM Express type 2 module with socket M, VGA/LVDS LCD, (PN: E38D830102)
CEM830V0	COM Express type 2 module with socket M, VGA/LVDS LCD, (PN: E38D830102)
Optional	
CEB94000	ATX form factor baseboard
5078D820000E	CEM830/820 heatspreader module for BGA type CPU
5078D820100E	CEM830/820 heatspreader module for PGA type CPU
5078D830100E	COM Express SoM low profile cooling kit with fan
5078D830200E	COM Express SoM low profile cooling kit without fan

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Industrial Motherboards

Slot CPU Cards

Accessories

Appendix