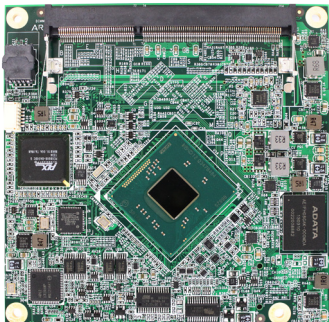


EmETXe-i2309

Intel® Atom™ Processor E3845

COM Express® Compact Type 6 CPU Module



Features

- **Fanless Design**
- Soldered onboard Intel® Atom™ processor E3845
- Integrated Gigabit Ethernet
- Dual Channels 24-bit LVDS, Analog RGB, and 1 x DisplayPort
- **Extended Operating Temp.: -20 ~ 70°C**
- **Wide Range Operating Temp.: -40 ~ 85°C (WT series)**

System

Processor	Soldered onboard Intel® Atom™ processor E3845 1.91GHz
Memory	1 x DDR3L SO-DIMM socket, supporting up to 8GB 1333MT/s SDRAM
BIOS	Insyde BIOS
Watchdog Timer	1~255 levels reset

I/O

Serial Port	1 x RX/TX
USB 2.0	8 x USB 2.0 ports
USB 3.0	1 x USB 3.0 port
Expansion	7 x PCIe1, LPC, SDIO
Storage	2 x Serial ATA ports with 300MB/s HDD transfer rate 4GB/8GB/16GB eMMC 4.5 (OEM Request)
Ethernet Chipset	1 x Intel® i210IT PCIe GbE controller
Audio	HD link
TPM Function	TPM supported (OEM request)

Display

Graphic Chipset	Integrated Intel® Gen7 Graphics Analog RGB/DVI: Analog RGB, with resolution up to 2048x1536
Graphic Interface	LCD: Dual Channels 24-bit LVDS, with resolution up to 1920x1200 DDI port: 1 x DDI port

OS Support

Windows 7 32-bit/64-bit
Windows 8.1 32-bit/64-bit
Linux: Ubuntu

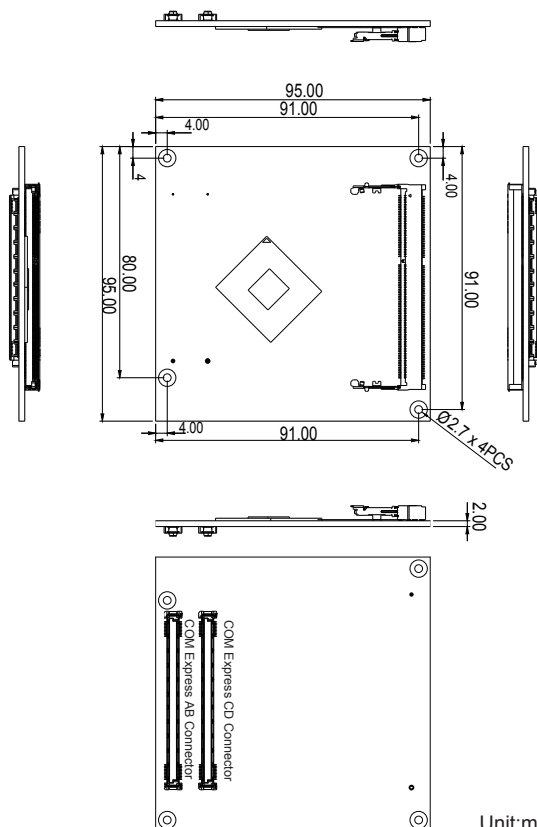
Mechanical & Environmental

Power Requirement DC 12V, 5VSB

Power Consumption	1.05A@12V with E3825 (Typical, with PBE-1702)
Operating Temp.	-20 ~ 70°C (-4 ~ 158°F) -40 ~ 85°C (-40 ~ 185°F, WT series)
Operating Humidity	10 ~ 95% @ 70°C (non-condensing) 10 ~ 95% @ 85°C (non-condensing, WT series)

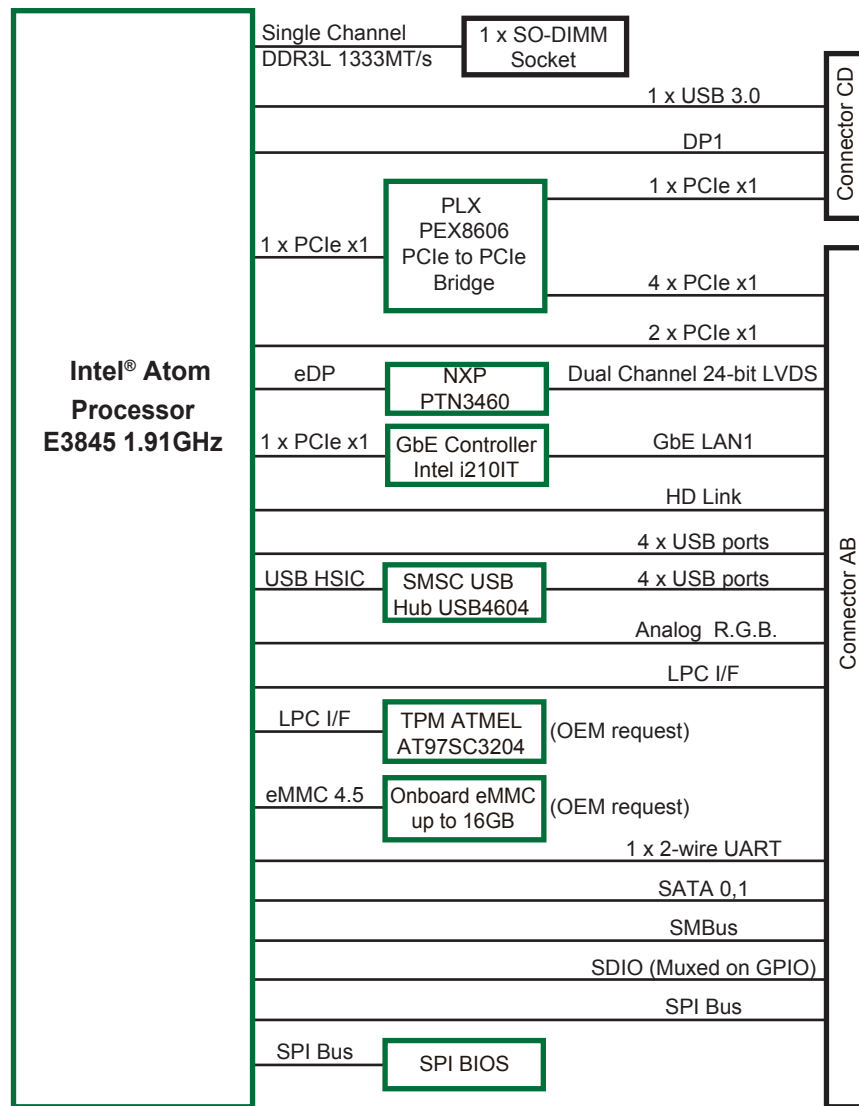
Dimensions (L x W) 95 x 95 mm (3.7" x 3.7")

Dimensions





Block Diagram



Ordering Information

EmETXe-i2309-E3845	Intel® Atom™ processor E3845 1.91GHz COM Express® Compact CPU module
EmETXe-i2309-WT-E3845 (BTO)*	Intel® Atom™ processor E3845 1.91GHz WT COM Express® Compact CPU module

Optional Accessories

HS-2309-F2-NT*	Heat spreader without threaded standoffs 95x95x11mm, not compatible with WT series
HS-0000-W4	Universal evaluation heat sink kit with thermal pad 125x95x22mm, only used on a flat-type heat spreader
CPF-0000-C1**	FAN, 4500RPM, 60x60x20mm
PBE-1702	COM Express® Type 6 evaluation carrier board with Super IO F71869ED in ATX form factor
CBK-04-1702-00	Cable kit 1 x USB cable 2 x Serial port cables 1 x SATA cable

*For Wide-Temperature series, it is suggested to use HS-2309-F2-NT in conjunction with HS-0000-W4.

**When installing CPF-0000-C1, It is suggested to use HS-2309-F2-NT in conjunction with HS-0000-W4 to attach the FAN.