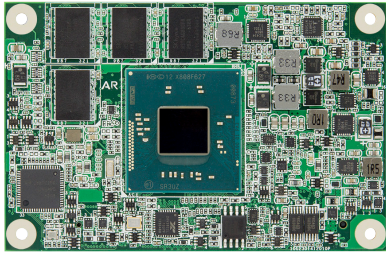


EmNANO-i230V



COM
Express

Intel® Atom™ E3800 family COM Express® Mini Type 10 CPU Module



Features

- Fanless design
- Soldered onboard Intel® Atom™ E3800 family
- Integrated Gigabit Ethernet
- Single channel 24-bit LVDS and DDI port
- 1 x USB 3.0 port, 8 x USB 2.0 ports, 2 x serial ports
- Supports dual independent displays
- **Wide Range Operating Temp.:-40~ 85°C**

System

CPU	Soldered onboard Intel® Atom™ E3825 1.33GHz or E3845 1.91GHz
Memory	Soldered onboard 2GB/4GB DDR3L SDRAM
BIOS	Insyde BIOS
Watchdog	1~255 levels

I/O

Serial Port	2 x Serial Ports (RX/TX only, via LPC to UART EXAR XR28V382)
USB Port	8 x USB 2.0 ports 1 x USB 3.0 port
Expansion Bus	3 x PCIe x1 Gen2 lanes, SDIO, SMBus, I2C SPI, and LPC (Low Pin Count) interface
Storage	2 x Serial ATA ports with 300MB/s HDD transfer rate
Ethernet Chipset	1 x Intel® Ethernet Controller i21x Series
AUDIO/ Interface	HD audio link

Display

Graphics Chipset	Integrated Intel® Gen 7 Graphics
Graphics Interface	1 x Single Channel 24-bit LVDS port 1 x DDI port

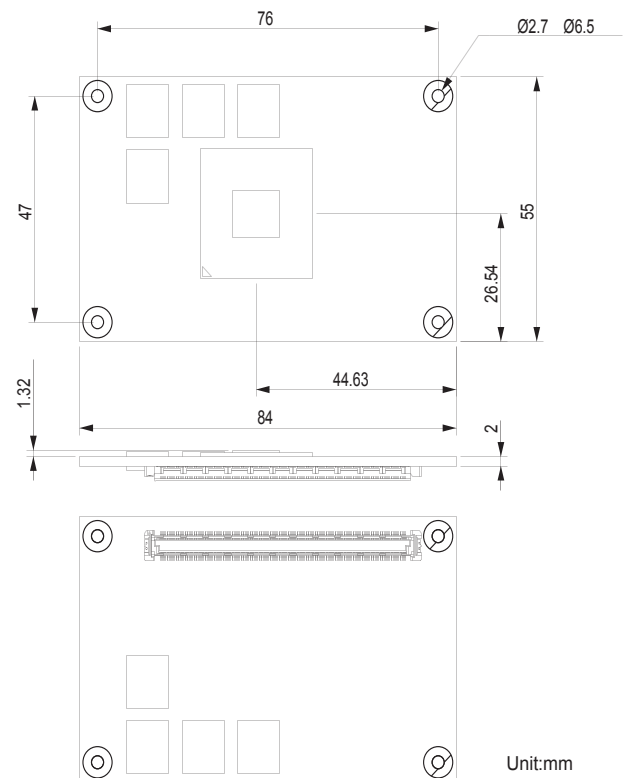
OS Support

Windows 7 32-bit/ 64-bit
Windows 10 64-bit
Windows 10 IoT
Linux: Ubuntu

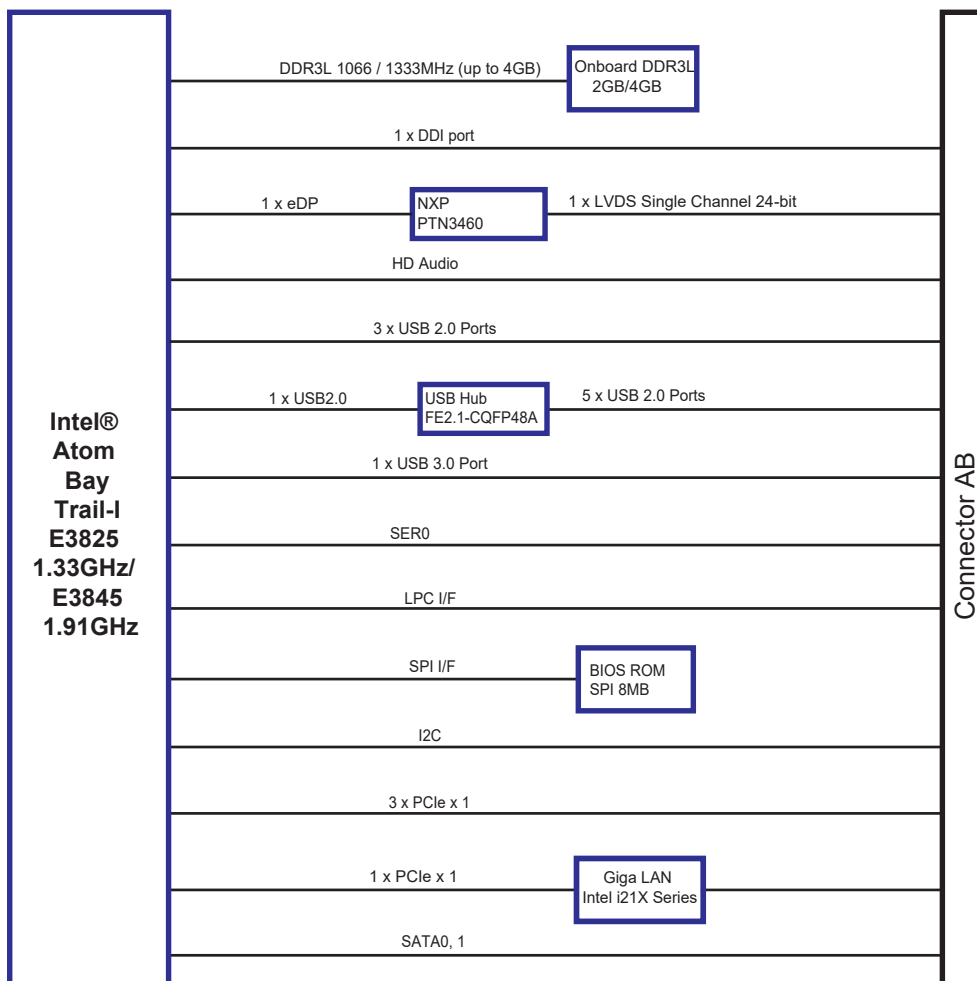
Mechanical & Environmental

Power Requirement	+12V / +5V auto detect
Power Consumption	1.05A@+12V with E3825 (Typical, with PBN-9007)
Operating Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10~ 95%@85°C (non-condensing)
Dimensions (L x W)	84 x 55 mm (3.30" x 2.17")

Dimensions



Block Diagram



Ordering Information

EmNANO-i230V-WT-E3825-4G	Intel [®] Atom [™] processor WT E3825 COM Express Type 10 CPU module with 4GB memory soldered on CPU module
EmNANO-i230V-WT-E3845-4G	Intel [®] Atom [™] processor WT E3845 COM Express Type 10 CPU module with 4GB memory soldered on CPU module
EmNANO-i230V-WT-E3825-2G	Intel [®] Atom [™] processor WT E3825 COM Express Type 10 CPU module with 2GB memory soldered on CPU module
EmNANO-i230V-WT-E3845-2G	Intel [®] Atom [™] processor WT E3845 COM Express Type 10 CPU module with 2GB memory soldered on CPU module

Optional Accessories

HS-230V-F1-T	Heat spreader with threaded standoffs 84x55x11mm
HS-230V-F1-NT	Heat spreader without threaded standoffs 84x55x11mm
PBN-9007	COM Express [®] Mini evaluation carrier board (EPIC form factor)
CBK-05-9007-00	Cable Kit 1 x USB cable 1 x serial port cable 1 x SATA cable 1 x SATA power cable 1 x PS/2 cable