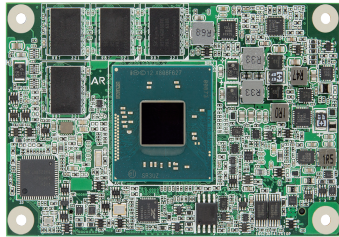




# EmNANO-i230V



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



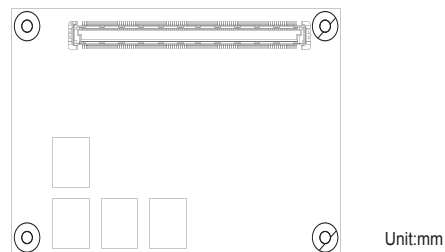
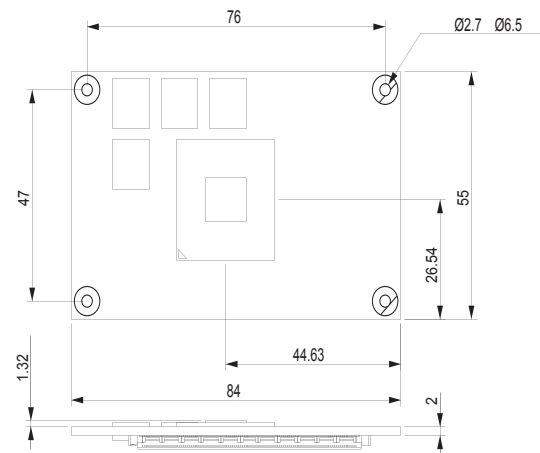
### Features

- 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
- **Extended 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® i210IT PCIe GbE controller
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	
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")

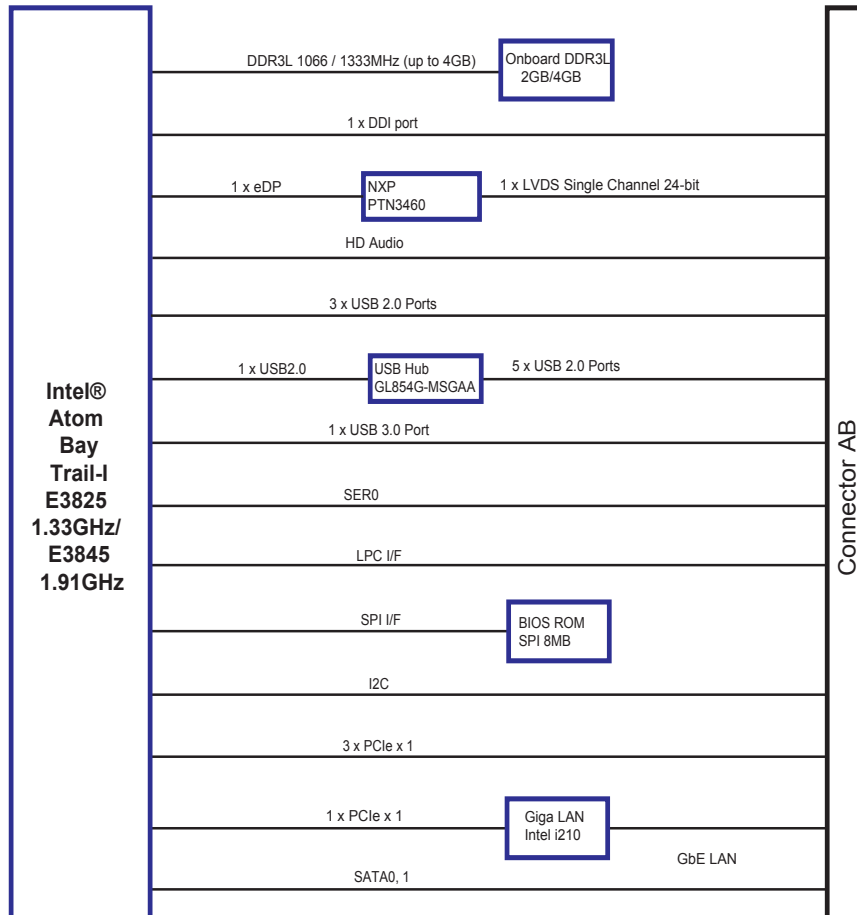
### Dimensions



Computer on Module



## 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

## Assured Systems

Assured Systems is a leading technology company with over 1,500 regular clients in 80 countries, deploying over 85,000 systems to a diverse customer base in 12 years of business. We offer high-quality and innovative rugged computing, display, networking and data collection solutions to the embedded, industrial, and digital-out-of-home market sectors.

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