



EmETXe-i87U2

COM 
Express

4th Generation Intel® Core™ Processor i7-4650U
COM Express® Compact Type 6 CPU Module



Features

- Soldered onboard 4th Generation Intel® Core™ processor
- Integrated Gigabit Ethernet
- Dual Channels 24-bit LVDS and 2 x DDI ports
- Support 3 independent displays
- Support Intel VT-d Technology
- **Wide Range Operating Temp.: -40 ~ 85°C**

System

Processor	Soldered onboard 4 th Generation Intel® Core™ Processor i7-4650U 1.7GHz
Memory	1 x DDR3L SO-DIMM socket, supporting up to 8GB 1600MT/s SDRAM
BIOS	AMI BIOS
Watchdog Timer	1~255 levels reset
I/O	
USB 2.0	8 x USB 2.0 ports
USB 3.0	2 x USB 3.0 ports
Expansion	8 x PCIe1 Gen.2, LPC
Storage	3 x Serial ATA ports with 600MB/s HDD transfer rate
Ethernet Chipset	1 x Intel® i218LM PCIe PHY
Digital I/O	8-bit Programmable
Audio	HD link
TPM Function	TPM supported

Display

Graphic Chipset	Integrated Intel® Graphics
Graphic Interface	LCD: Dual Channels 24-bit LVDS, with resolution up to 1920x1200 DDI port: 2 x DDI ports

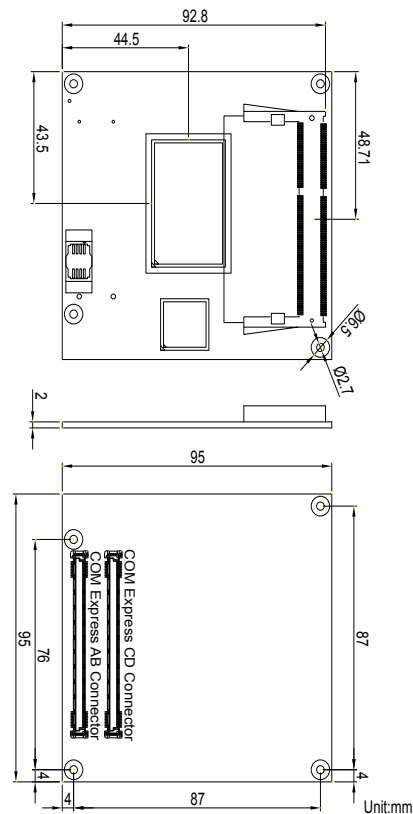
OS support

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

Mechanical & Environmental

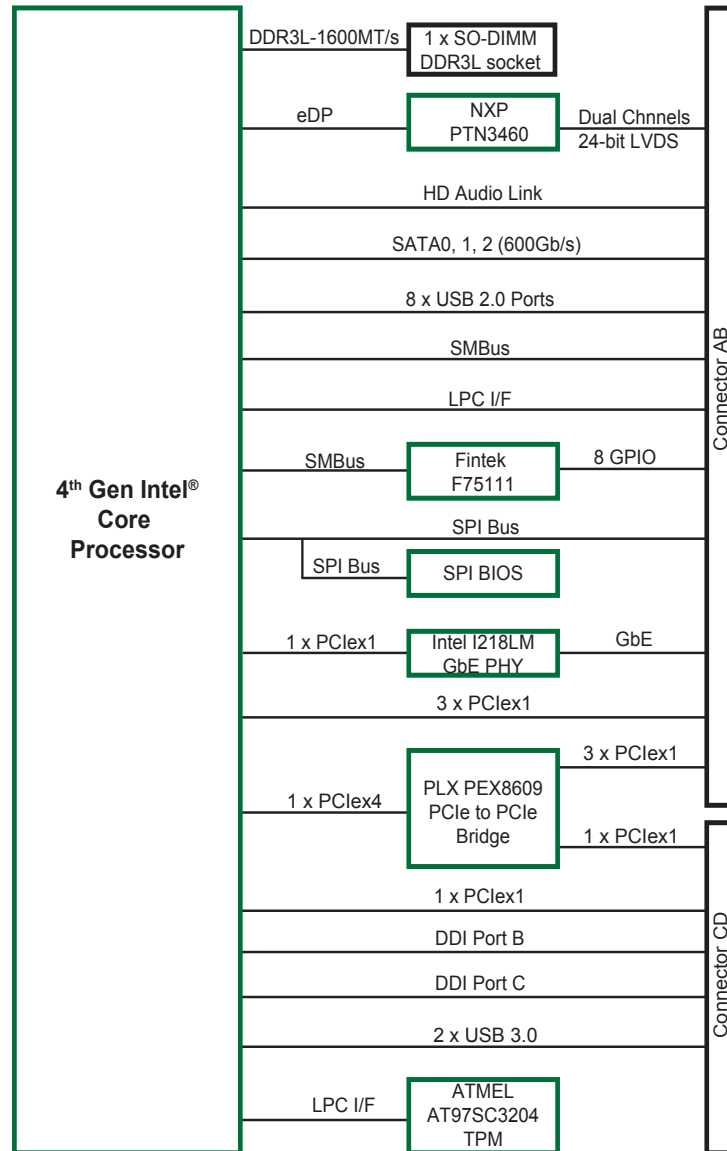
Power Requirement	DC 12V, 5VSB
Power Consumption	2.64A@12V, 0.2A@5VSB (Typical, with PBE-1702)
Operating Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 85°C (non-condensing)
Dimensions (L x W)	95 x 95 mm (3.7" x 3.7")

Dimensions





Block Diagram



Ordering Information

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Optional Accessories

HS-88U0-F2-T*	Heat spreader with threaded standoffs 95x95x11mm, not compatible with WT series
HS-88U0-F2-NT*	Heat spreader without threaded standoffs 95x95x11mm, not compatible with WT series
HS-88U0-C1	Heat spreader with fan
HS-0000-W4	Universal evaluation heat sink kit with thermal pad 125x95x22mm, only used on a flat-type heat spreader
CPF-0000-C1	Heat sink with FAN 95x95x30.5mm
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 range operation, it is suggested to use HS-88U0-F2-T or HS-88U0-F2-NT in conjunction with HS-0000-W4 .

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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