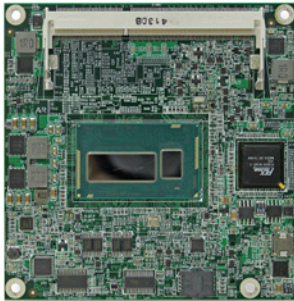


# EmETXe-i87U2

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



## Features

- Soldered onboard 4<sup>th</sup> 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 <sup>th</sup> 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

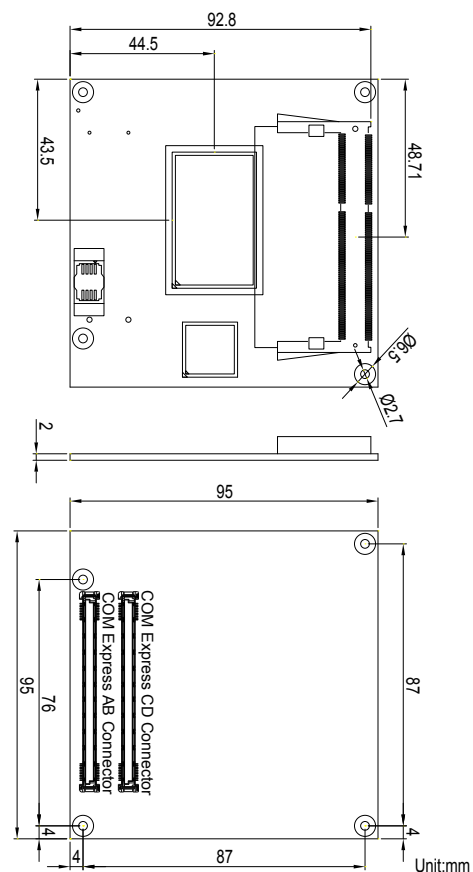
## OS support

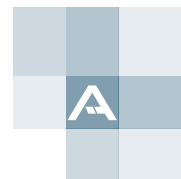
Windows 7 32-bit/64-bit  
 Windows 8.1 32-bit/64-bit  
 Linux: Ubuntu

## Mechanical & Environmental

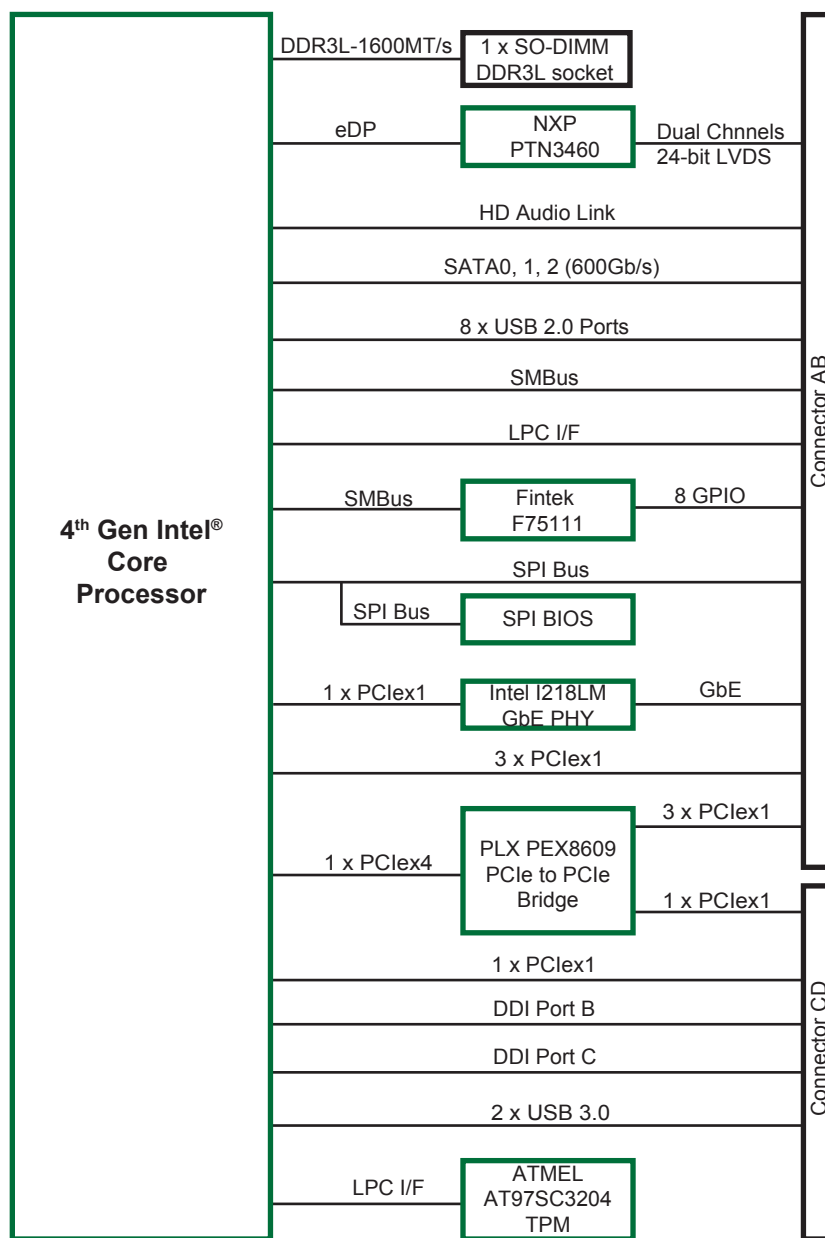
Power Requirement	DC 12V, 5VSB
Power Consumption	2.64A@12V, 0.2A@5VSB (Typical, with PBE-1702)
Operating Temp.	-40 ~ 85°C (-40 ~ 185°F)
Operating Humidity	10 ~ 95% @ 85°C (non-condensing)
Dimensions (L x W)	95 x 95 mm (3.7" x 3.7")

## Dimensions





## Block Diagram



## Ordering Information

EmETXe-i87U2 4<sup>th</sup> Generation Intel® Core™ i7-4650U COM Express® Compact Type 6 CPU module

## 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 .