

Features

- Onboard 7th Gen Intel® Xeon® E3/ Core™ i7/i5/i3 processors
- 2x DDR4-2400 SO-DIMM, Max. 32GB
- 1x Intel® PCI-E GbE LAN
- Watchdog timer, Digital I/O
- 8x USB 2.0, 4x USB 3.0, 2x COM, 4x SATA III
- 3x independent displays
- TPM (2.0)
- 8x PCI-E(x1), 1x PCI-E(x16)
- Wide-range operating temperature in certain models

Specifications

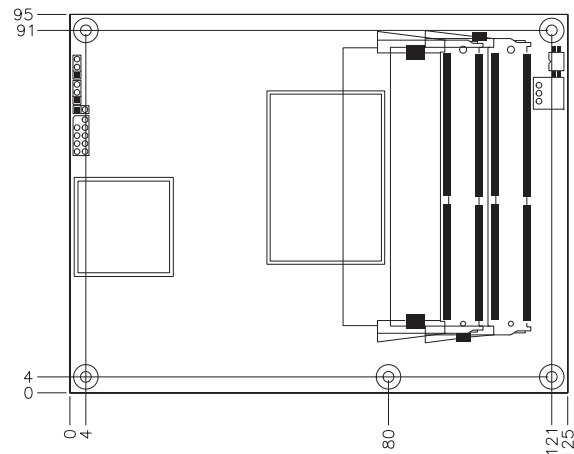
CPU	BGA1440 for 7th Gen Intel® Xeon® E3/ Core™ i7/i5/i3 processors
PCH	Intel® QM175 & CM238 & HM175 PCH
Memory	2x DDR4-2400 SO-DIMM, Max 32GB
BIOS	AMI
Watchdog Timer	256 levels
H/W Monitor	Yes
Storage Device Interface	N/A
Expansion Slots	8x PCI-E (x1), 1x PCI-E(x16)
Graphics Controller	7th Gen Intel® Core™ processor integrated graphics, Supports DVI, HDMI, DisplayPort, LVDS
Video Output	24-bit dual-channels LVDS on carrier board
Ethernet	Intel® I219LM LAN PHY/Intel® I219V LAN GbE
I/O Chipset	Nuvoton NCT5523D
Serial Port	(supports Tx/Rx only) 2x COM port
USB 2.0	8x USB 2.0 via carrier board
USB 3.X	4x USB 3.0 via carrier board
Serial ATA	4x SATA III via carrier board
Audio	Intel® QM175 PCH built-in HD audio w/ Realtek ALC662 or ALC888S codec on carrier board (IP413)
TPM	TPM (2.0)
Others	Digital I/O (4-in/4-out)
Dimensions (L X W)	95mm x 125mm (3.74" x 4.92")
Power Consumption	Intel® i7-7820EQ, 3.0GHz w/16GB DDR4-2400 +12V: 4.48A; +5V: 0.65A +3.3V: 0.27A, +5VBS: 0.13A
Operating Temperature	-40°C~75°C (-40°F~167°F)(ET970K-I3) 0°C~60°C (32°F~140°F)
Storage Temperature	-20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90% (non-condensing)

Ordering Information

ET970K-X3G	COM Express (Type-6) CPU Module w/ Intel® Xeon® E3-1505M V6 (3.0GHz), CM238 PCH, DDR4 dual-channel memory
ET970K-I7	COM Express (Type-6) CPU Module w/ Intel® Core™ i7-7820EQ (3.0GHz~3.7GHz), QM175 PCH, DDR4 dual-channel memory
ET970K-I5	COM Express (Type-6) CPU Module w/ Intel® Core™ i5-7440EQ (2.9GHz~3.6GHz), QM175 PCH, DDR4 dual-channel memory
ET970K-I3	COM Express (Type-6) CPU Module w/ Intel® Core™ i3-71001E (2.9GHz), HM175 PCH, DDR4 dual-channel memory, wide temp support
ET970S-I7	COM Express (Type-6) CPU Module w/ Intel® Core™ i7-6820EQ (2.8GHz), QM170 PCH, DDR4 dual-channel memory
HSET970-B	Heatsink with fan for ET970
HSET970-2	Heat spreader with fan for ET970

*[S] means with Realtek ALC888S codec

Dimensions and Drawing



1 Single Board Computers

2 CPU Modules

3 Motherboards

4 CPU Cards