



Key Features

- Intel® 8th Generation Intel® Core™ Processor BGA 1440
- Intel® Xeon® Processor E-2100M
- Supports Dual Channel DDR4 SO-DIMM 2666MHz up to 32GB
- 2 x DDI channels, 1 x eDP(shared with LVDS)
- 4 x USB 3.1, 8 x USB 2.0, 4 x SATA3
- 1 x Intel LAN
- 1 x TPM2.0 on board IC (optional)

Specifications

Processor System

Dimensions	COM Express (4.95-in x 3.74-in)
CPU	Intel® 8 th Generation Intel® Core™ Processor BGA 1440 Intel® Xeon® Processor E-2100M - I7-8850H, 6C, 2.6GHz, 45W - I5-8400H, 4C, 2.5GHz, 45W - I3-8100H, 4C, 3GHz, 45W - E-2176M, 6C, 2.7GHz, 45W (optional)
Chipset	Intel® QM370 Intel® CM246 (optional) Intel® HM370 (Non-AMT)

Expansion Slot

PCIe	1 x PCIe x16, 1 x PCIe x8
Mini-PCIe	N/A
M.2	N/A
mSATA	N/A

Memory

Technology	Dual Channel DDR4 2666MHz
Max	32GB
Socket	2 x SO-DIMM
ECC Support	Yes (Intel® Xeon®)

Graphics

Controller	Intel® UHD Graphics 630 / Intel® UHD Graphics P630(E-2176M)
Display output	Support 2xDDI, 1xeDP (shared with LVDS)
Multi Display	Triple Display

Ethernet

Interface	10/100/1000 Mbps
Controller	1x Intel LAN I219LM (only for I7-8850H/I5-8400H/E-2176M) 1x Intel LAN I219V (only for I3-8100H)

I/O

USB	8 x USB 2.0, 4 x USB 3.1
SATA	4 x SATA3 (6.0Gb/s)
Parallel	N/A
GPIO	4 x GPO + 4 x GPI
TPM	TPM2.0 on board IC (optional)
Others	LPC, SMBus, I2C, SPI, FAN, WDT

Watchdog Timer

Interval	256 segments, 0,1,2...255sec
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Power Requirements

Input PWR	ATX: 12V/5Vsb, or AT: 8-20V
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Environment

Operating Temperature	0°C – 60°C
Storage Temperature	-40°C – 85°C