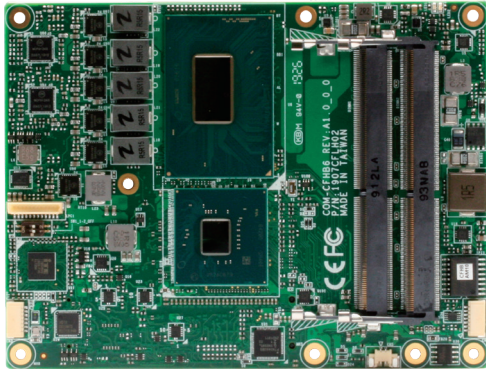


Computer on Modules for OEM/ODM

# ONYX COM-CFHB6

COM Express Type 6 with 8th/9th Generation Intel® Core™ H-Series / Xeon™ Processors



## Features

- 8th / 9th Generation Intel® Core™ i3/i5/i7/ Xeon-E Processors
- 3x SODIMM DDR4 2666 Memory up to 48GB, ECC support (by SKU, with CM246 PCH)
- Intel I219 Gigabit Ethernet
- VGA, 18/24-bit 2ch LVDS or 4-lane eDP, DDI up to 3
- High Definition Audio Interface
- SATA x 4, USB2.0 x 8, USB 3.2 Gen 1 X 4
- PCI-Express [x1] x 8, PCI-Express[x16] x1
- GPIO x 8, SMBus, I2C, LPC
- COM Express Basic Size, Pin-Out Type 6, 125mm x 95mm



## Specifications

### System

Form Factor	COM Express Basic Size, Type 6
CPU	8th/9th Gen Intel® Core™ / Xeon™-E Series Processor (i7-8850H / i5-8400H / i3-8100H / Xeon™-E2176M)
CPU Frequency	Up to Xeon-E2176M, 6c/ 2.7GHz
Chipset	Intel® QM370/CM246 PCH
Memory Type	SODIMM DDR4 2666 Socket x 3
Memory Capacity	Up to 48GB,ECC Support ( only with CM246 PCH)
BIOS	AMI BIOS, Legacy Free BIOS
Wake on LAN	Yes
Watchdog Timer	255 Levels
Power Requirement	Standard: +12V
Power Supply Type	AT / ATX Selection
Power Consumption	Intel ® Xeon ® E-2176M CPU @2.70GHz, DDR4 16GB x 3, Full load: 62.4W, 5.2A@12V
Dimension (L x W)	4.92" x 3.75" (125mm x 95mm)
Operating Temperature	32°F ~ 140°F (0°C ~ 60°C) -4°F ~ 158°F (-20°C ~ 70°C) by screening
Storage Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Operating Humidity	10% ~ 95% relative humidity, non-condensing
MFTB (Hours)	80,000
Certification	CE / FCC Class A

### Display

VGA / LCD Controller	Intel® GT2-P630 (E2176M) / GT2-630 ( i7/i5/i3 Series)
Video Output	VGA, 18/24b 2ch LVDS/eDP, DDI x 2 (3rd one can be added if VGA not require)
LVDS Interface	Supports 18-bit and 24-bit dual channel

### I/O

Ethernet	Intel® Ethernet I219 GbE x 1
Audio	HD Audio
USB Port	USB 2.0 x 8 , USB 3.2 Gen 1 x 4
Serial Port	2-wire UART(TX/RX ) x 2
HDD Interface	SATA3 x 4
Onboard Storage	—
Expansion Slot	PCIe[x1] x 8 PCIe[x16] x 1 LPC x 1 SMBUS x 1 2-wire UART x 2
GPIO	8-bit
TPM	Support 1.2 / 2.0 (Optional)