



EPS-CFH

Intel® 8th/9th Coffee Lake Rugged Fanless Embedded System



- > 8th/9th Generation Intel® Processors
- > Intel® CM246/QM370 Express Chipset
- > Intel® Gigabit LAN Controller
- > Memory Max. Up to 64GB DDR4 2400
- > mPCIe Expansion Slot (Max. Up to 2)
- > 0~60C Operating Temperature
- > Support RAID 0/1
- > Support TPM 2.0

+ Spec

System Information (CS)

Processor	Xeon® E-2176M* 45W (35W cTDP), 6C/GT2 (ECC/non-ECC) Core™ i7-8850H* 45W (35W cTDP), 6C/GT2 (non-ECC) Core™ i5-8400H 45W (35W cTDP), 4C/GT2 (non-ECC) Core™ i3-8100H* 45W (35W cTDP), 4C/GT2 (ECC/non-ECC)
Platform Controller Hub	CM246 (supports ECC memory, Intel® AMT and PEG configuration) QM370 (supports Intel® AMT and PEG configuration)
System Memory	Up to 2x 260-pin DDR4-2400/2133 SO-DIMM with up to 64 GByte)
I/O Chipset	EC(IT8528E)
BIOS Information	AMI uEFI BIOS, 128 Mbit SPI Flash ROM)
Watchdog Timer	HW Reset, 1sec. ~ 65535sec. and 1sec./step
H/W Status Monitor	Monitoring System Temperature, Voltage and FAN Status with Auto Throttling Control
RAID	RAID 0/1
TPM	TPM 2.0 (Firmware)
iAMT	iAMT 12.0 supported (only on specific models with Xeon/i7/i5 SKU)

Expansion (CS)

mPCIe	2 x mPCIe Socket
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Storage (CS)

mSATA	1 x mSATA
2.5" Drive Bay	2 x 2.5" Internal Drive Bay

Edge I/O (Front) (CS)

USB Port	2 x USB 2.0
Power Button	1 x Power On/Off
Reset Button	1 x Reset
LED Indicator	1 x Power On/Off 1 x Storage Access

Edge I/O (Rear) (CS)

USB Port	4 x USB 3.2
COM Port	2 x RS-232
HDMI	2 x HDMI
Audio	1 x Mic-In 1 x Line-Out
RJ-45	2 x RJ45
Digital I/O	1 x 8-Bit GPIO
Antenna	2 x Antenna Mounting

Edge I/O (Right) (CS)

Antenna	2 x Antenna Mounting
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Edge I/O (Left) (CS)

Antenna	2 x Antenna Mounting
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Display (CS)

Graphic Chipset	Intel® Coffee Lake Processor integrated Graphics
Resolution	HDMI 1.4: 4096x2160 @30Hz (only one display output)

Audio (CS)

Audio Codec	Realtek ALC888S
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Ethernet (CS)

LAN Chipset	1 x Intel® I211AT 1 x Intel® I219LM
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Specification	10/100/1000 Base-Tx GbE compatible
Power Requirement (CS)	
DC Input	+12V
DC Input Connector	Lockable DC Jack
ACPI	Single Power ATX Support S0,S3, S4, S5 ACPI5.0 Compliant
Power Mode	AT/ATX (ATX is default setting)
Adapter	AC to DC Adapter
Software Support (CS)	
OS Information	Win10 Linux
Certification (CS)	
Certification Information	CE FCC Class B
In-Box Accessory (CS)	
Accessory	AC to DC adapter Power Cord Screw kit