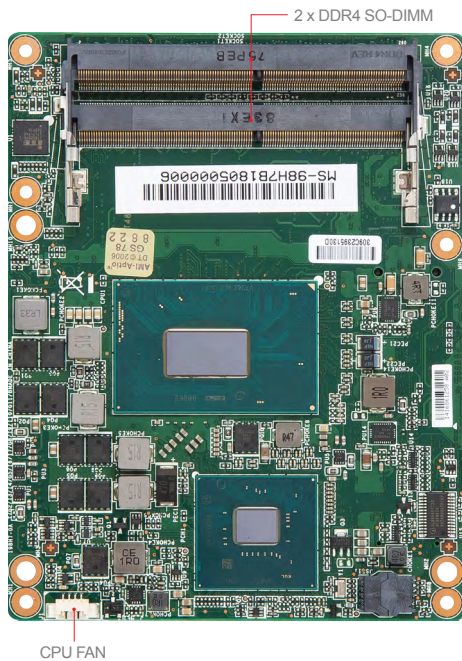


# MS-98H7

COM Express SBC with 8th Gen Intel® Coffee Lake-H Platform for Type 6 Basic Solution



## Features

- Intel® 8th Gen Coffee Lake-H Series with CM246/QM370
- 2 DDR4 2666 MHz ECC/non-ECC SODIMM slots up to 32GB
- Triple independent displays: VGA, LVDS, 3 DDI
- GbE LAN
- 1 PCIe x16 (Gen 3), 8 PCIe x1 (Gen 3)
- 4 SATA 3.0 for storage
- SATA RAID 0/1/5/10
- 4 USB 3.2 Gen 1, 8 USB 2.0, 2 UART
- Onboard TPM 2.0
- iAMT 12.x

## Ordering Information

Part Number	Description
919-98H7-001	MS-98H7\609-98H7-010\ 809-98H7-002 VER 10 COM Express Basic M/B Intel Coffee Lake-H CM246 +E2176M, 2*DDR4 SO-DIMM, 3*DDI, 1*VGA, 1*LVDS, 1*TPM2.0, 2*COM Express type 6 connector
919-98H7-002	MS-98H7\609-98H7-020\ 809-98H7-002 VER 10 OPT.A COM Express Basic M/B Intel Coffee Lake-H QM370+I7-8850H, 2*DDR4 SO-DIMM, 3*DDI, 1*VGA, 1*LVDS, 1*TPM2.0, 2*COM Express type 6 connector
919-98H7-003	MS-98H7\609-98H7-030\ 809-98H7-002 VER 10 OPT.B COM Express Basic M/B Intel Coffee Lake-H QM370+I5-8400H, 2*DDR4 SO-DIMM, 3*DDI, 1*VGA, 1*LVDS, 1*TPM2.0, 2*COM Express type 6 connector
919-98H7-004	MS-98H7\609-98H7-040\ 809-98H7-002 VER 10 OPT.C COM Express Basic M/B Intel Coffee Lake-H QM370+I3-8100H, 2*DDR4 SO-DIMM, 3*DDI, 1*VGA, 1*LVDS, 1*TPM2.0, 2*COM Express type 6 connector

## Packing List

Part Number	Description	Quantity
E31-2100190-K08	Heat spreader	1
G71-SEDC191-N56/ G71-SEDC191-X03	MS-9A89-A Series Driver DVD	1

## Specifications

Processor	CPU	8th Gen Intel® Embedded Coffee Lake-H Xeon™ E-2176M Mobile Processor, HC, 45W	8th Gen Intel® Embedded Coffee Lake-H Core™ i7-8850H/i5-8400H/i3-8100H Mobile Processor, HC/ QC, 45W	
	Frequency	2.5GHz~4.4GHz (Depends on CPU)		
	L2 Cache	3MB~4MB (Depends on CPU)		
	CPU Type	BGA		
	Chipset	Intel® CM246 Express	Intel® QM370 Express	
Memory	BIOS	AMI		
	Technology	Dual-channel DDR4 (ECC) 2666MHz	Dual-channel DDR4 (Non-ECC) 2666MHz	
	Max. Capacity	Up to 32GB		
	Socket	2 x 260-pin SO-DIMMs		
Display	Controller	Intel® HD Graphics		
	Graphic Memory	Depends on CPU		
	LVDS	Dual channel 18/24-bit		
	VGA	1		
	DVI	N/A (3 DDI ports support DVI/HDMI/DP (DDI3 AUX shared with VGA))		
	HDMI	N/A (3 DDI ports support DVI/HDMI/DP (DDI3 AUX shared with VGA))		
	DisplayPort	N/A (3 DDI ports support DVI/HDMI/DP (DDI3 AUX shared with VGA))		
	Multiple Display	3 independent displays		
	Display Interface	LVDS Resolution up to 1920 x 1200 @60Hz		
		VGA Resolution up to 1920 x 1080 @60Hz 3 x DDI: DVI up to 1920 x 1200 @60Hz HDMI 1.4 up to 4096 x 2160 @24Hz DP up to 4096 x 2304 @60Hz		
Ethernet	Controller	1 x Intel® I219LM GbE-PHY LAN (AMT 12.x supported)		
Audio	Controller	Support HD audio interface to carrier board		
H/W Monitor	Watchdog Timer	256-level Watchdog Timer		
	Smart Fan	Yes		
TPM	Controller	Infineon SLB9665TT 2.0		
I/O Interface	USB	8 x USB 2.0 (to carrier board) 4 x USB 3.2 Gen 1 (to carrier board)		
	Serial	2 x COM ports (to carrier board)		
	GPIO	8-bits (4 x GPI; 4 x GPO), 5V		
Expansion Slot	PCIe x16	1 x PCI Express x16 GEN. 3.0 lanes (Configurable to 1 x16 or 2 x8 or 1 x8 + 2 x4)		
	PCIe x1	8 x PCI Express GEN. 3.0 lanes (Configurable to 5 x PCIe x1 or 4 x PCIe x1 & 1 x PCIe x4)		
	M.2	N/A		
Storage	SATA	4 x SATA 3.0		
	DC	N/A		
Power Supply	ATX	ATX +12 V and +5 VSB (standby power) AT: +12 V		
	Environment	Operating Temperature	-10 ~ 60°C	
Environment	Operating Humidity	10 ~ 90%, non-condensing		
	Storage Temperature	-20 ~ 80°C		
	Storage Humidity	10 ~ 90%, non-condensing		
	Form Factor	Dimensions (W x D x H)	125 x 95mm (COM Express Type 6 Basic module)	
Form Factor	Weight	0.113 kg		
	Certification	EMC, CE, RCM, VCCI, BSMI		
Software Platform	OS Support	Windows 10 (64-bit) Linux (Support by request)		