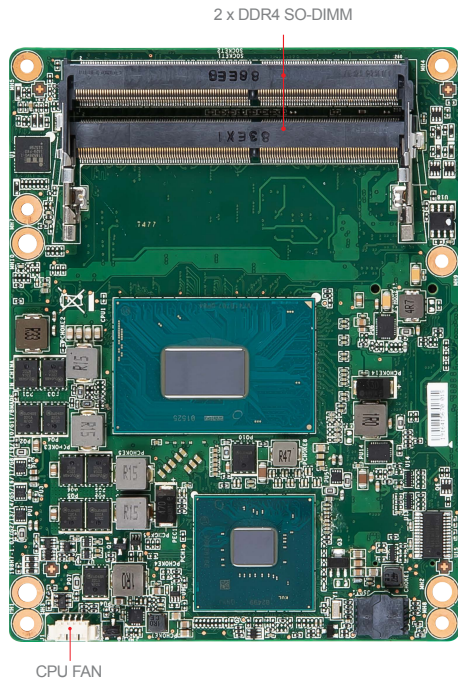


MS-98H7

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

NEW



Features

- Supports 8th Gen Intel® Embedded Coffee Lake-H Xeon™ & Core™ i7/i5/i3 Mobile Processor
- Supports 2 x DDR4 2666MHz SO-DIMMs up to 32GB (ECC supported by CM246)
- Supports 3 independent displays with 4K/2K HD resolution
- Supports Intel® I219LM GbE-PHY LAN w/ iAMT 12.x
- Supports 4 SATA 3.0 with RAID 0/1/5/10, 2 COM, 4 USB 3.1 Gen1, and 8 USB 2.0 ports
- Supports 8 PCIe x1 Gne3 for multiple expansion (Configurable to 5 x PCIe x1 or 4 x PCIe x1 & 1 x PCIe x4)
- Supports PEG Gne3 configurable to 1 x16 or 2 x8 or 1 x8 + 2 x4
- Supports TPM 2.0 Onboard

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	Driver DVD	1

Specifications

Category	Item	Specification 1	Specification 2	
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	8MB~12MB (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 32 GB		
	Socket	2 x 260-pin SO-DIMMs		
	Controller	Intel® HD Graphics		
Display	Graphic Memory	Shared system memory up to 1.7 GB SDRAM		
	LVDS	Dual channel 18/24-bit		
	eDP	N/A		
	VGA	1		
	DVI	3 DDI ports support HDMI/DP/DVI (DDI3 AUX shared with VGA)		
	HDMI	3 DDI ports support HDMI/DP/DVI (DDI3 AUX shared with VGA)		
	DisplayPort	3 independent displays		
	Multiple Display	3 independent displays		
	Display Interface	LVDS Resolution	up to 1920x1200 @60Hz	
		VGA Resolution	up to 1920 x 1080 @60Hz	
3 x DDI:		DVI up to 1920 x 1200 @60Hz HDMI1.4 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	Support HD audio interface to carrier board		
Super I/O	Controller	N/A		
H/W Monitor	Watchdog Timer	256-level Watchdog Timer		
	Smart Fan	Yes		
TPM	Controller	Infineon SLB9665TT 2.0		
I/O Interfaces	USB	8 x USB 2.0 (to carrier board) 4 x USB 3.1 (to carrier board)		
	Serial	2 x COM ports (to carrier board)		
	Parallel	N/A		
	PS/2	N/A		
	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 x4	N/A		
	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)		
	PCI	N/A		
	M.2	N/A		
Storage	Mini-PCIe	N/A		
	SATA	4 x SATA 3.0		
	IDE	N/A		
	eSATA	N/A		
	CFast	N/A		
	mSATA	N/A		
Power Supply	CompactFlash	N/A		
	DC	N/A		
	ATX	ATX +12 V and +5 VSB (standby power) AT: +12 V		
Environment	Operating Temperature	-10 ~ 60°C		
	Operating Humidity	10 ~ 90%, non-condensing		
	Storage Temperature	-20 ~ 80°C		
	Storage Humidity	10 ~ 90%, non-condensing		
Form Factor	Dimensions	125 x 95mm (COM Express Type 6 Basic module)		
	Weight	0.113 kg		
Certification	EMC	FCC, CE, RCM, VCCI, BSMI		
Software Platform	OS Support	Windows 10 (64-bit) Linux Kernel 4.x (by request)		

Semi-rugged Terminal
POS System
HMI Panel PC
Embedded System
Embedded Board
COM Express Board
Oseven Board
Pico-ITX Board
3.5" Board
EPIC Board
PICMG 1.0 Board
Mini-ITX Board
Micro-ATX Board
ATX Board
Mini-PCIe Module