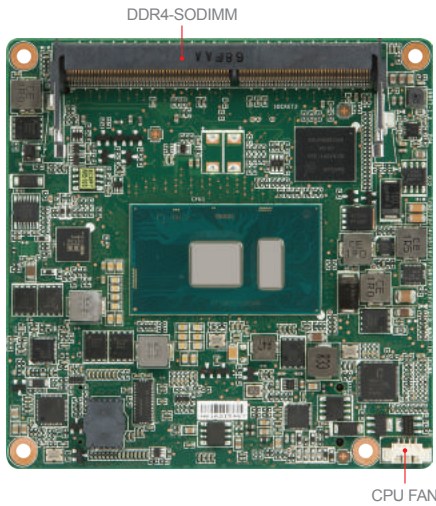


# MS-98F7

COM Express SBC with 7th/6th Gen Intel® Kaby Lake-U/ Skylake-U Platform for Type6-Compact Solution



DDR4-SODIMM

CPU FAN

## Features

- Supports 7th/6th Gen Intel® Embedded Mobile Kaby Lake-ULT/ Skylake-ULT Core™ i7/i5/i3/Celeron Processor
- Supports 2 x DDR4 1866/2133 SO-DIMM up to 32GB
- Supports 3 independent displays with 4K/2K HD resolution
- Supports Intel® GbE LAN w/ iAMT 11.x
- Supports 3 SATA 3.0, 2 COM, 4 USB 3.0, 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 TPM 2.0 and 32GB eMMC 5.0

## Ordering Information

Part Number	Description
919-98F7-001	MS-98F7 10 COM Express Compact M/B Intel Kabylake-U i7-7600U, 2*DDR4 SO-DIMM, DDI /VGA/ LVDS signal, 1*eMMC, 1*TPM2.0, 2*COM Express type 6 connector
919-98F7-002	MS-98F7 10 OPT:A COM Express Compact M/B Intel Kabylake-U i5-7300U, 2*DDR4 SO-DIMM, 2*DDI / LVDS signal, 2*COM Express type 6 connector
919-98F7-003	MS-98F7 10 OPT:B COM Express Compact M/B Intel Kabylake-U i3-7100U, 2*DDR4 SO-DIMM, 2*DDI / LVDS signal, 2*COM Express type 6 connector
919-98F7-004	MS-98F7 10 OPT:C COM Express Compact M/B Intel Skylake-U i7-6600U, 2*DDR4 SO-DIMM, DDI /VGA/ LVDS signal, 1*eMMC, 1*TPM2.0, 2*COM Express type 6 connector

## Packing List

Part Number	Description
E31-2100190-K08	Heat spreader

## Specifications

<b>Processor</b>	CPU	7th/6th Gen Intel® Embedded Mobile Kaby Lake-ULT/Skylake-ULT Core™ i7/i5/i3/Celeron Processor, DC, 15W
	Frequency	2.0GHz~3.4GHz (Depends on CPU)
	L2 Cache	2MB~4MB (Depends on CPU)
	CPU Type	BGA
	Chipset	N/A
<b>Memory</b>	BIOS	AMI
	Technology	Dual-channel DDR4 2133MHz
<b>Memory</b>	Max. Capacity	Up to 32GB
	Socket	2 x 260-pin SO-DIMMs
<b>Display</b>	Controller	Intel® HD Graphics
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM
	LVDS	Dual channel 24-bit
	eDP	N/A
	VGA	1 (Share with DDI1 Signal, by BOM option)
	DVI	
	HDMI	2 DDI ports support HDMI/DP (DDI1 by BOM option, default is for VGA)
	DisplayPort	
	Multiple Display	3 independent displays
	Display Interface	LVDS Resolution up to 1920x1200 @60Hz VGA Resolution up to 1920 x 1080 @60Hz 2 x DDI: HDMI1.4 up to 4096 x 2160 @24Hz DP up to 4096 x 2304 @60Hz
<b>Ethernet</b>	Controller	1 x Intel® I219LM GbE-PHY LAN (AMT 11.x supported)
<b>Audio</b>	Controller	Support HD audio interface to carrier board
<b>Super I/O</b>	Controller	N/A
<b>H/W Monitor</b>	Watchdog Timer	256-level Watchdog Timer
	Smart Fan	Yes
<b>TPM</b>	Controller	Yes (TPM2.0, by BOM option)
<b>I/O Interface</b>	USB	8 x USB 2.0 (to carrier board) 4 x USB 3.0 (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
<b>Expansion Slot</b>	PCIe x16	N/A
	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
	Mini-PCIe	N/A
<b>Storage</b>	SATA	3 x SATA 3.0
	mSATA	32GB eMMC 5.0 (by BOM option)
<b>Power Supply</b>	DC	N/A
	ATX	ATX +12 V and +5 VSB (standby power) AT: +12 V
<b>Environment</b>	Operating Temperature	-20 ~ 70°C
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
	Storage Humidity	10 ~ 90%, non-condensing
<b>Form Factor</b>	Dimensions (W x D x H)	95 x 95mm (COM Express compact module)
	Weight	0.105 kg
<b>Certification</b>	EMC	FCC, CE,RCM, VCCI, BSMI
<b>Software Platform</b>	OS Support	Windows 7 (32/64-bit) (Skylake-ULT Only) Windows 8.1 (64-bit) (Skylake-ULT Only) Windows 10 (64-bit) Linux Fedora 25 (by request) Linux Ubuntu 16.04 (by request)