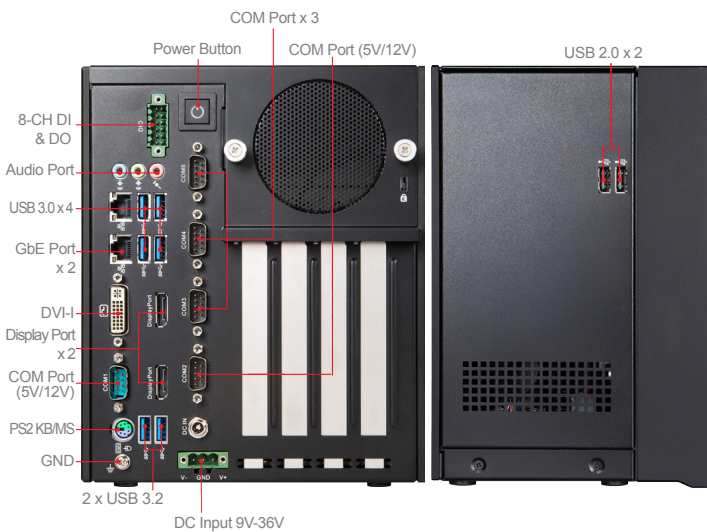


# MS-9A76

Outperform Fanless Box PC with 7th/6th Gen Intel® Core™ i Processor for Rugged, Scalable & Versatile Solution



## Features

- Intel® 7th/6th Gen Kaby Lake-S/Skylake-S Series with C236/Q170
- 2 DDR4 2400/2133 MHz ECC/non-ECC SODIMM slots up to 32GB
- Triple independent displays: DVI-I, 2 DP
- 2 GbE LAN with RJ-45
- SKU1: 1 PCIe x16 (Gen 3), 1 PCI, 1 Mini-PCIe (Full size, with mSATA) slots
- SKU2: 1 PCIe x16 (Gen 3), 3 PCI
- SKU3: 2 PCIe x8 (Gen 3), 2 PCI
- mSATA, 2 SATA 3.0 (2.5" SSD/HDD, 7mm) for storage
- SATA RAID 0/1
- 6 USB 3.2 Gen 1, 5 USB 2.0(2 ports by option), 5 COM(2 RS485), Audio, GPIO, PS/2, System FAN
- Onboard TPM 2.0
- GPIO 8-bit supports 5~35V, Isolation 1.5KV
- Easy access CPU, HDD, memory, CFast, expansion slots
- Anti-Vibration & Shockproof Design to Compliance IEC 60068-2
- Wide Voltage DC-IN 9~36V
- Fanless design

## Ordering Information

Part Number	Description
Please check MSI IPC website at <a href="http://ipc.msi.com">http://ipc.msi.com</a> for details.	

## Packing List

Part Number	Description
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## Optional Item

Part Number	Description
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## Specifications

<b>Processor</b>	CPU	7th/6th Gen Intel® Desktop Kaby Lake/Skylake Core™ i7/i5/i3/Celeron™/Pentium® Processor, Max. 65W		
	Frequency	2.3 GHz~3.9 GHz (Depends on CPU)		
	L2 Cache	2M~8M (Depends on CPU)		
	CPU Type	Socket (LGA1151)		
	Chipset	Intel® Q170 Express / Intel® C236 Express		
<b>Memory</b>	BIOS	AMI		
	Technology	Q170: Dual-channel DDR4(non-ECC) 2133/2400MHz C236: Dual-channel DDR4(ECC) 2133/2400MHz		
	Max. Capacity	Up to 32GB		
<b>Display</b>	Socket	2 x 260-pin SO-DIMMs		
	Controller	Intel® HD Graphics		
	Graphic Memory	Depends on CPU		
	Multiple Display	3 Independent Displays		
<b>Ethernet</b>	Display Interface	DP up to 3840 x 2160 @60Hz DVI-I up to 1920 x 1200 @60Hz		
	Controller	1 x Intel® I219GbE-PHY LAN (Support Intel® AMT) 1 x Intel® I210-AT GbE LAN		
<b>Audio</b>	Controller	Realtek® ALC887 HD Audio Codec		
<b>H/W Monitor</b>	Watchdog Timer	256-level Watchdog Timer		
	Smart Fan	N/A		
<b>TPM</b>	Controller	Infineon SLB9665TT2.0		
<b>Expansion Slot</b>	PCIe x16	1	N/A	1
	PCIe x8	N/A	2	N/A
	PCIe x4	N/A		
	PCIe x1	N/A		
	PCI	3	2	1
	M.2	N/A		
	Mini-PCIe	N/A		1 x Full-size (w/ mSATA)
<b>Storage</b>	SATA	2 x 2.5" HDD/SSD		
	mSATA	N/A		
	CFast	1		
	CompactFlash	N/A		
<b>I/O Interface</b>	RJ-45	2		
	PoE	N/A		
	Audio	1 x Mic-in 1 x Line-out 1 x Line-in		
	USB	5 x USB 2.0 (one port w/ security key) 6 x USB 3.2 Gen 1		
	Serial	5 x COM ports COM1~2: RS232/422/485, 0V/5V/12V COM3~5: RS-232, 0V		
	PS/2	1		
	GPIO	8-bits (4 x GPI; 4 x GPO), 5~35V, Isolation 1.5KV		
	CANbus	N/A		
	HDMI	N/A		
	LVDS	N/A		
	DVI	1 (DVI-I)		
	DisplayPort	2		
	Antenna	N/A		
<b>Power Supply</b>	DC Input	DC-In 9-36V Wide-Range pluggable connectors with latch (GND, V-, V+)		
	IP Rating	Full IP20		
	Operating Temperature	-10 ~ 40°C w/ Fan module Up to 65W CPU -10 ~ 50°C w/ industrial DC power Up to 35W CPU Note: Thermal w/ Airflow:0.7m/s		
<b>Environment</b>	Operating Humidity	10 ~ 90%, non-condensing		
	Storage Temperature	-20 ~ 80°C		
	Storage Humidity	10 ~ 90%, non-condensing		
	Vibration	Operating, IEC 60068-2-64: 1.5 Grms, random, 5 ~ 500 Hz, 1hr/axis (w/ HDD/SSD)		
	Shock	Operating, IEC 60068-2-27: 50G, half sine, 11ms (w/ HDD/SSD)		
<b>Form Factor</b>	Dimensions (Wx DxH)	217 x 226 x 176 mm	217 x 226 x 143 mm	
	Weight	4.8 Kg	4.4 Kg	
	Mounting	Wall mount		
<b>Certification</b>	EMC	FCC Class A, CE, RCM, VCCI, BSMI		
	Safety	UL		
<b>Software Platform</b>	OS Support	Windows 7 (32/64-bit) (Skylake-S Series CPU Only) Windows 8.1 (64-bit) (Skylake-S Series CPU Only) Windows 10 (64-bit)		