

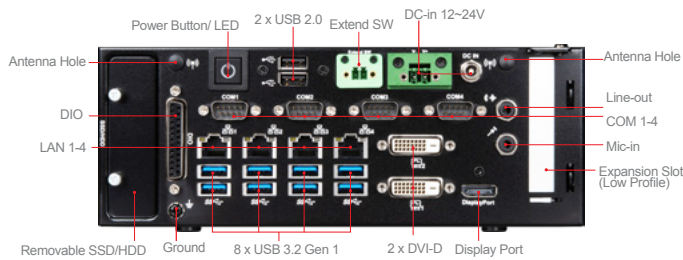
MS-9B11

Outperform Fanless Box PC with 7th/6th Gen Intel® Kaby Lake/Skylake Processor for One Site I/O & Simplified Installation Solution

MS-9B11-S1



MS-9B11-S2



Features

- Intel® 7th/6th Gen Kaby Lake-S/Skylake-S Series with Q170
- 2 DDR4 2400/2133 MHz ECC/non-ECC SODIMM slots up to 32GB
- Triple independent displays: 2DVI-D, DP (HDMI by option)
- 4 GbE LAN with RJ-45
- 1 PCIe x16 (Gen 3, Low Profile), 1 Mini-PCIe (Full/Half size, with SIM Holder) slots
- M.2 M Key, 2 SATA 3.0 for storage
- SATA RAID 0/1/5
- 8 USB 3.2 Gen 1, 2 USB 2.0, 4 COM(4 RS485), Audio, GPIO, System FAN
- Onboard TPM 2.0
- Easy access 2.5" HDD/SSD Drive Bay
- One site I/O design for simplified installation and maintenance
- Wide Voltage DC-IN 12~24V
- Fanless design, Max. 35W
- Active thermal design, Max. 65W

Ordering Information

Part Number	Description
939-9B11-002	MS-9B11-S1/MS-9B11/709-9B11-010/829-9B11-005/STD VER.1.1 FANLESS, Q170, BLACK, 1*SATA CABLE, 2*WALL MOUNT, 2*TERMINAL BLOCK, 2*THERMAL PAD, 1*DRIVER CD, SINGLE
939-9B11-003	MS-9B11-S2/MS-9B11/709-9B11-020/829-9B11-006/OPT.A VER.1.1 FAN COOLER, Q170, BLACK, 1*SATA CABLE, 2*WALL MOUNT, 2*TERMINAL BLOCK, 2*THERMAL PAD, 1*DRIVER CD, SINGLE

Optional Item

Part Number	Description
S93-0404420-S14	Adaptor 19V/180W
OE2-9A7001-000	DIN Rail (2pcs for 1set)
E43-1306044-P65	Screw for DIN Rail Mounting (4pcs for 1set)
K33-3001020-I45	Power Cord, US, 1800mm
K33-3001021-I45	Power Cord, EU, 1800mm

NEW

Specifications

	MS-9B11-S1	MS-9B11-S2		
System Processor	CPU	Intel® Desktop 7th Gen Kaby Lake-S & 6th Gen Skylake-S Core™ i7/i5/i3, Pentium™, Celeron™ Processor, Max. 35W	Intel® Desktop 7th Gen Kaby Lake-S & 6th Gen Skylake-S Core™ i7/i5/i3, Pentium™, Celeron™ Processor, Max. 65W	
	Frequency	2.3 GHz~4.0 GHz (Depends on CPU)		
	L2 Cache	2M ~ 8M (Depends on CPU)		
	CPU Type	Socket (LGA1151)		
	Chipset	Intel® Q170 Express		
	BIOS	AMI		
Memory	Technology	Dual-channel DDR4 2133/2400MHz		
	Max. Capacity	Up to 32GB		
	Socket	2 x 260-pin SO-DIMMs		
Graphic	Controller	Intel® HD Graphics		
	Graphic Memory	Depends on CPU		
	Multiple Display	3 independent displays		
Display Interface	DVI-D	up to 1920 x 1200 @60Hz		
	DP	up to 4096 x 2304 @60Hz		
Ethernet	HDMI	up to 4096 x 2160 @24Hz		
	Controller	4 x Intel® I210-AT GbE LAN		
Audio	Controller	Realtek® ALC887 HD Audio Codec		
	Watchdog Timer	256-level Watchdog Timer		
H/W Monitor	Watchdog Timer	N/A	Yes	
	TPM	Controller: Infineon SLB9665TT 2.0		
Expansion Slot	M.2	1 x M key (PCIe x4 NVMe, SATA 3.0), 2242/2280		
	PCIe x16	1 (Maximum 75W, Low Profile Supported)		
	Mini-PCIe	1 x Full-size (w/ SIM holder)		
Storage	SATA	2 x 2.5" HDD/SSD Bay (One w/ Removable)		
	RJ-45	4		
I/O Interface	Audio	1 x Mic-in 1 x Line-out		
	USB	2 x USB 2.0 8 x USB 3.2 Gen 1		
	Serial	4 x COM ports COM1: RS-232/422/485, RI/5V/12V COM2-4: RS-232/422/485, 0V/5V/12V		
	GPIO	16-bits (8 x GPI; 8 x GPO), 5V		
	HDMI	11 (by BOM Optional)		
	DVI	2 (DVI-D)		
	Antenna	2 openings reserved for antennas		
	Power Supply	DC Input	DC-In 12-24V Wide-Range Phoenix pluggable connectors with latch (V+, V-)	
		Operating Temperature	-10 ~ 45°C	
		Operating Humidity	10 ~ 90%, non-condensing	
Environment	Storage Temperature	-20 ~ 80°C		
	Storage Humidity	10 ~ 90%, non-condensing		
	Vibration	Operating: 0.25 Grms, 5-300Hz, 3axes (w/ HDD)		
Physical characteristics	Shock	Operating: 3 G, half sine 11 ms duration (w/ HDD)		
	Dimensions (WxDxH)	235 x 200 x 125mm	235 x 200 x 88mm	
	Weight	4.43 kg	2.50 kg	
Certification	Mounting	Wall mount, DIN-rail mount (by BOM option)		
	EMC	FCC Class A, CE, RCM, BSMI, VCCI		
Software Platform	Safety	BSMI		
	OS Support	Windows 7 (32/64-bit) (Intel® Skylake-S Series CPU Only) Windows 8.1 (64-bit) (Intel® Skylake-S Series CPU Only) Windows 10 (64-bit) Linux Fedora 23 (by request) Linux Ubuntu 16.04 (by request)		

Packing List

Part Number	Description	939-9B11-001	939-9B11-002
E22-9B11130-LA2	Wall Mounting Bracket	2	2
E49-1304011-P65	Screw for Wall Mounting	6	6
E25-9B01030-K23	Rubber for Wall Mountin	6	6
E43-1304037-P65	Screw for 2.5" Drive Bay	8	8
E25-9B11070-K23	Rubber for 2.5" Drive Bay	8	8
E31-0806300-K08	FANLESS Thermal Module	1	0
E32-0802420-K08	FAN Cooler	0	1
K1D-3012023-V03	SATA Cable with Power, 230mm	1	1
E26-9B11010-Z36	HDD Thermal Pad	2	2
NA1-1020051-PC1	Phoenix Terminal Plugged for Extend SW	1	1
NA1-1020073-SR2	Phoenix Terminal Plugged for DC-in	1	1