

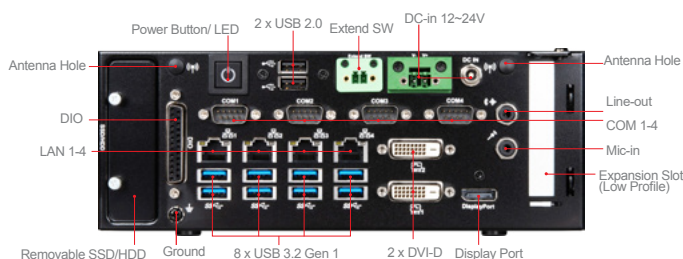
MS-9B11

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 | | |
| Memory | BIOS | AMI | | |
| | Technology | Dual-channel DDR4 2133/2400MHz | | |
| | Max. Capacity | Up to 32GB | | |
| Graphic | Socket | 2 x 260-pin SO-DIMMs | | |
| | Controller | Intel® HD Graphics | | |
| | Graphic Memory | Depends on CPU | | |
| | Multiple Display | 3 independent displays | | |
| Ethernet | Display Interface | DVI-D up to 1920 x 1200 @60Hz DP up to 4096 x 2304 @60Hz 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) | | |
| | Shock | Operating: 3 G, half sine 11 ms duration (w/ HDD) | | |
| Physical characteristics | Dimensions (WxDxH) | 235 x 200 x 125mm | 235 x 200 x 88mm | |
| | Weight | 4.43 kg | 2.50 kg | |
| | Mounting | Wall mount, DIN-rail mount (by BOM option) | | |
| Certification | EMC | FCC Class A, CE, RCM, BSMI, VCCI | | |
| | Safety | BSMI | | |
| Software Platform | 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 |