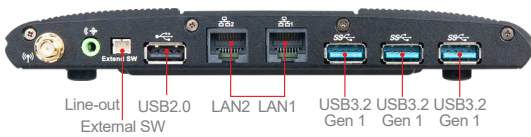


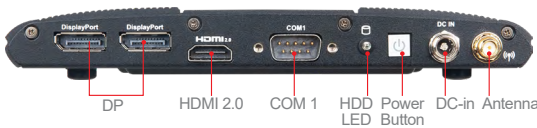
MS-9A85

Ultra-Slim & Featherweight Fanless Box PC with Intel® Apollo Lake Platform, Low-Power for Digital Signage

NEW



Ultra-Thin 19mm
Slim and Fanless design



Features

- Intel® Apollo Lake Series SoC
- 1 DDR3L 1866/1600 MHz SODIMM slot up to 8GB
- Triple independent displays: 2 DP, HDMI 2.0
- 2 GbE LAN with RJ-45
- 1 M.2 E Key, 1 Mini-PCIe(Full-size, with SIM Holder) slot
- M.2 M key, SATA 3.0 (2.5" SSD/HDD, 7mm) for storage
- 3 USB 3.2 Gen 1, USB 2.0, COM(RS485), Audio
- Onboard TPM 2.0 (by option)
- Easy access HDD, Memory, SIM Card, Mini-PCIe, M.2 slots
- DC-IN 19V
- Ultra-slim, cableless & low power fanless design with thinness 19mm

Ordering Information

| Part Number | Description |
|--------------|--|
| 939-9A85-004 | MS-9A85/709-9A85-020/829-9A85-007 OPT:C Ver 11, WindBOX Barebone, Fanless, ApolloLake J3455, BLACK, 2*ANTENNA, Adaptor 19V/65W, Single |

Packing List

| Part Number | Description | Quantity |
|-----------------|----------------------|----------|
| S93-0401780-S14 | Adaptor 19V/65W | 1 |
| S79-0000360-V03 | ANTENNA | 2 |
| E27-9A85020-Z36 | THERMAL PAD | 1 |
| E22-9A95080-C22 | VESA Mount Bracket | 1 |
| E41-1406003-P65 | VESA Mount Screw | 4 |
| E22-9A85051-LA2 | VESA Support Bracket | 1 |
| E43-1306058-P65 | VESA Support Screw | 4 |
| E41-1303501-P65 | 2.5" HDD/SSD Screw | 2 |

Optional Item

| Part Number | Description |
|-----------------|----------------|
| K33-3001020-I45 | USA power cord |
| K33-3001021-I45 | EU power cord |

Specifications

| | | |
|--------------------------|--|--|
| System Processor | CPU | Intel® Celeron® Processor J3455, QC, 10W |
| | Frequency | 1.5 GHz, up to 2.3 GHz |
| | L2 Cache | 2MB |
| | CPU Type | BGA |
| | Chipset | Integrated |
| Memory | BIOS | AMI |
| | Technology | Single-Channel DDR3L1600/1866 MHz |
| | Max. Capacity | Up to 8 GB |
| Display | Socket | 1 x 204-pin SO-DIMM |
| | Controller | Intel® HD Graphics |
| | Graphic Memory | Depends on CPU |
| | Multiple Display | 3 independent displays |
| Display Interface | HDMI 2.0 up to 3840 x 2160 @60Hz* DP 1.2 up to 4096 x 2160 @60Hz (Resolution combination depends on various application) (*HDMI resolution for 30Hz or 60Hz depends on monitor) | |
| | Ethernet | Controller |
| Audio | Controller | Realtek® ALC887/888S HD Audio Codec |
| H/W Monitor | Watchdog Timer | 256-level Watchdog Timer |
| | Smart Fan | N/A |
| TPM | Controller | Infineon SLB9665TT2.0 (by BOM option) |
| Expansion Slot | M.2 | 1 x E Key (PCIe x2, USB 2.0), 2230 1 x M Key (SATA only), 2280 |
| | Mini-PCIe | 1 x Full-size (with SIM holder) |
| Storage | SATA | 1 x 2.5" HDD/SSD |
| | mSATA | N/A |
| I/O Interface | RJ-45 | 2 |
| | Audio | 1 x Line-out (Mic-in by AP driver) |
| | USB | 1 x USB 2.0 3 x USB 3.2 Gen 1 |
| | Serial | 1 x COM port COM1: RS-232/422/485, 0V/5V/12V |
| | Parallel | N/A |
| | PS/2 | N/A |
| | GPIO | N/A |
| | CANbus | N/A |
| | HDMI | 1 |
| | LVDS | N/A |
| Power Supply | DVI | N/A |
| | DisplayPort | 2 |
| | VGA | N/A |
| | Antenna | 2 openings reserved for antennas |
| | DC Input | DC-in 19V with Lockable DC Jack |
| | AC Input | N/A |
| | IP Rating | N/A |
| Environment | Operating Temperature | 0 ~ 40°C (HDD/WT M.2 M key) -10 ~ 50°C (SSD) Note: Thermal w/ Airflow:0.7m/s |
| | Operating Humidity | 10 ~ 90%, non-condensing |
| | Storage Temperature | -20 ~ 80°C |
| | Storage Humidity | 10 ~ 90%, non-condensing |
| Form Factor | Vibration | Operating, 0.25 Grms, 5-300Hz, 3axes (w/ HDD) |
| | Shock | Operating, 3 G, half sine 11 ms duration (w/ HDD) |
| | Dimensions (W x D x H) | 180 x 255 x 19 mm |
| Certification | Weight | 1.17 kg |
| | Mounting | VESA mount |
| Software Platform | EMC | FCC, CE, RCM, VCCI, BSMI |
| | Safety | BSMI, Energy Star |
| OS Support | Windows 10 IoT Enterprise LTSC/SAC 1809 (64-bit, RS5) Linux Fedora 25 (by request) Linux Ubuntu 16.04 (by request) | |