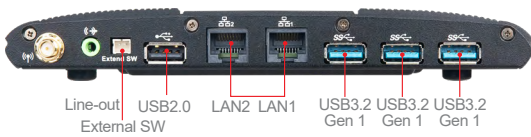
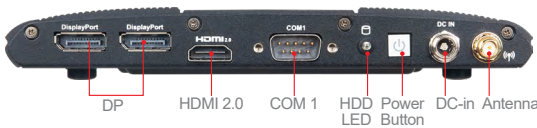


MS-9A85

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



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
	Socket	1 x 204-pin SO-DIMM
Display	Controller	Intel® HD Graphics
	Graphic Memory	Depends on CPU
	Multiple Display	3 independent displays
Display	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	2 x Intel® I211-AT GbE LAN
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
	RJ-45	2
I/O Interface	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
	DVI	N/A
Power Supply	DisplayPort	2
	VGA	N/A
	Antenna	2 openings reserved for antennas
	DC Input	DC-in 19V with Lockable DC Jack
	AC Input	N/A
Environment	IP Rating	N/A
	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	OS Support	Windows 10 IoT Enterprise LTSC/SAC 1809 (64-bit, RS5) Linux (Support by request)