

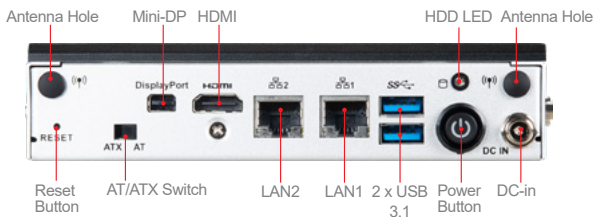
MS-9A97

Din Rail Slim Box PC with Intel® Apollo Lake Series SoC Platform for IoT Edge Solution Computer



NEW

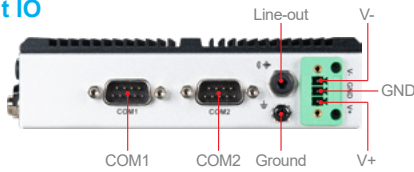
Front IO



Left IO



Right IO



Features

- Intel® Apollo Lake Series SoC
- 1 LPDDR4 2133 MHz onboard memory up to 4GB
- Dual independent displays: Mini-DP, HDMI
- 2 GbE LAN with RJ-45
- 1 Mini-PCIe (Full size, with SIM Holder), 1 Mini-PCIe (Half size, with mSATA) slots
- 2 USB 3.2 Gen 1, 2 USB 2.0, 2 COM(RS-485), GPIO, Audio
- Anti-Vibration & Shockproof Design to compliance IEC 61373
- DC-IN 12V
- Ultra-Compact & fanless design with thinness 35mm

Ordering Information

Part Number	Description
9S9-9A97-001	MS-9A97/709-9A97-010/829-9A97-002 VER 10 Egde, Fullsystem, FANLESS, Memory 4G, mSATA 64G, Apollo lake-I E3940, DIN-RAIL, 4*JUMPERS, 2*TERMINAL BLOCK, CD, 12V/36W ADAPTER, USA POWER CORD, W/O MSI LOGO SINGLE
9S9-9A97-002	MS-9A97/709-9A97-010/829-9A97-003 VER 10 Egde, Fullsystem, FANLESS, Memory 4G, mSATA 64G, Apollo lake-I E3940, DIN-RAIL, 4*JUMPERS, 2*TERMINAL BLOCK, CD, 12V/36W ADAPTER, EU POWER CORD, W/O MSI LOGO SINGLE

Optional Item

Part Number	Description
E22-9A97010-LA2	Wall Mounting, 2pc
E43-1065016-P65	Wall Mounting Screw, 4pc
E25-9B01030-K23	Wall Mounting Rubber, 4pc

Specifications

System Processor	CPU	Intel® Atom™ x5 Processor E3940, QC, 9.5W	Intel® Celeron® Processor J3455, QC, 10W	
	Frequency	1.6 GHz up to 1.8 GHz	1.5 GHz, up to 2.3 GHz	
	L2 Cache	2MB		
	CPU Type	BGA		
	Chipset	Integrated in SoC		
Memory	BIOS	AMI		
	Technology	Single-channel LPDDR4 2133MHz		
	Max. Capacity	Up to 4GB		
	Socket	Onboard		
Display	Controller	Intel® HD Graphics		
	Graphic Memory	Depends on CPU		
	Multiple Display	2 independent displays		
Ethernet	Controller	2 x Intel® I211-AT GbE LAN		
	Controller	Realtek® ALC887-VD2-CG HD Audio Codec		
H/W Monitor	Watchdog Timer	256-level Watchdog Timer		
	Smart Fan	N/A		
TPM	Controller	N/A		
Expansion Slot	Mini-PCIe	1 x Full-size (w/ NANO SIM Holder) 1 x Half-size (w/ mSATA)		
	mSATA	64G (default)		
I/O Interface	RJ-45	2		
	Audio	1 x Line-out		
	USB	2 x USB 2.0 2 x USB 3.1 Gen 1		
	Serial	2 x COM ports COM1: RS-232/422/485, 0V/5V/12V COM2: RS-232/422/485, 0V/5V/12V		
	GPIO	8-bit (4*GPI; 4*GPO), 5V		
	HDMI	1		
	DisplayPort	1 (Mini-DP)		
	Antenna	4 opening reserved antennas		
	Power Supply	DC Input	DC-in 12V Jack (5.5mm/2.5mm) / Phoenix pluggable with latch (Option support OCP/OVP Protection)	
		Operating Temperature	-10~55°C (W/ mSATA) -10~65°C (W/ WT mSATA)	
Environment	Operating Humidity	10 ~ 90%, non-condensing		
	Storage Temperature	-20 ~ 80°C		
	Storage Humidity	10 ~ 90%, non-condensing		
	Vibration	IEC61373 Category 1, Class A		
Form Factor	Shock	IEC61373 Category 1, Class A		
	Dimensions (W x D x H)	153 x 130 x 35mm		
	Weight	0.841 kg		
Certification	Weight	DIN-rail mount(STD)/Wall mount (by BOM option)/VESA mount(by BOM option)		
	EMC	FCC Class A, CE, RCM, VCCI, BSMI		
Software Platform	Safety	BSMI		
	OS Support	Windows 10 IoT Enterprise LTSB/CBB 1607 (64-bit, RS1) Windows 10 IoT Enterprise LTSC/SAC 1809 (64-bit, RS5) Linux Fedora 25 (by request) Linux Ubuntu 16.04 (by request)		

Packing List

Part Number	Description	Quantity
K33-3001020-I45	Power Cord, US, 1800mm (by BOM)	1
K33-3001021-I45	Power Cord, EU, 1800mm (by BOM)	1
S93-0408920-S14	Adaptor 12V/36W	1
OE2-9A77001-000	DIN Rail	1
E43-1306044-P65	DIN Rail Screw	2
NA1-1020051-PC1	Phoenix Terminal Plugged, 1*2pin	1
NA1-1030063-SR2	Phoenix Terminal Plugged, 1*3pin	1
N33-1020531-H06	Jumpers for connector	4
G71-SEDC203-N56	Driver CD	1

Industrial Computer
COM Express Board
Qseven Board
Pico-ITX Board
3.5" Board
EPIC Board
PICMG Board
Mini-ITX Board
Micro-ATX Board
ATX Board
Compact-Size LVD/S/DVI
Compact-Size DC/DC
Full-Size Mini-PCIe
Intel® SDM