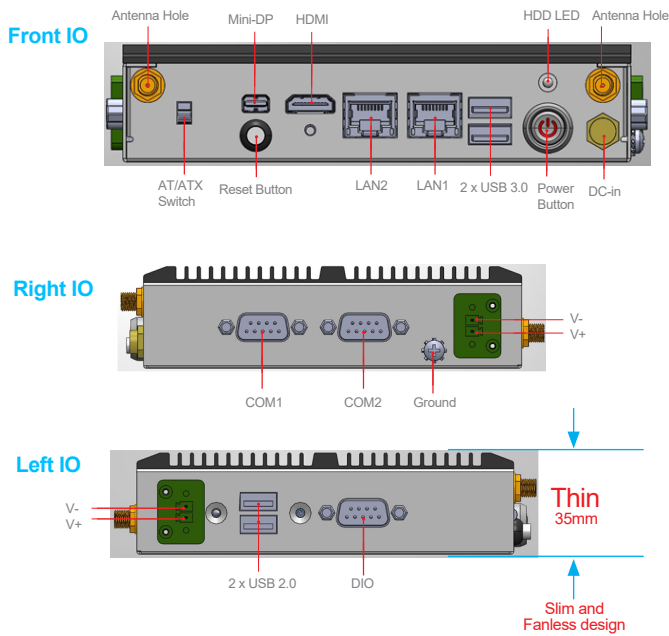


# MS-9A97

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

NEW



## Features

- Slim and fanless system design with 35mm thickness
- Supports onboard 4GB LPDDR4-2400MHz memory and 64G mSATA storage (default)
- I/O ports: 1 x Mini-DP, 1 x HDMI, 2 x GbE LAN, 2 x USB3.0, 2 x USB2.0 and 2 x COM
- Support Dual Mini-PCIe slots for mSATA, WIFI, 3G/4G
- Support ATX/AT Switch, reset button, Power/HDD LED
- Support DC in 12V with DC Jack & 2-pin Pheonix
- 4 openings reserved for antennas
- Optional Support COM isolation and Power OCP/OVP

## Ordering Information

Part Number	Description
Coming soon	

## Packing List

Part Number	Description
Coming soon	

## Specifications

<b>Processor</b>	CPU	Intel® Celeron® Processor N3350, DC, 6W
	Frequency	1.1GHz~2.4GHz
	L2 Cache	2MB
	CPU Type	BGA
	Chipset	N/A
<b>Memory</b>	BIOS	AMI
	Technology	Dual-channel LPDDR4-2400MHz
	Max. Capacity	Onboard 4 GB
<b>Display</b>	Socket	N/A
	Controller	Intel® HD Graphics
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM
	Multiple Display	2 independent displays
<b>Ethernet</b>	Display Interface	HDMI up to 3840 x 2160 @30 Hz Mini-DP up to 4096 x 2160 @60 Hz
	Controller	2 x Intel® I211-AT GbE LAN
<b>Audio</b>	Controller	Realtek® ALC887-VD2-CG HD Audio Codec
<b>H/W Monitor</b>	Watchdog Timer	256-level Watchdog Timer
	Smart Fan	N/A
<b>TPM</b>	Controller	N/A
<b>Expansion Slot</b>	Mini-PCIe	1 x Full-size (w/ NANO SIM-Holder) 1 x Half-size (Shared w/ mSATA)
	SATA	N/A
<b>Storage</b>	mSATA	64G (default)
	CFast	N/A
	CompactFlash	N/A
	RJ-45	2
	Audio	N/A
<b>I/O Interface</b>	USB	2 x USB3.0 2 x USB2.0
	Serial	2 x COM ports COM1~2: RS-232/422/485, 0V/5V/12V (option supports 2 x RS-422 or 2x RS-485 port-to-computer isolation, complies with IEC 60950-1:2005 + A1: 2009 + A2:2013 2.5kV HIPOT protection)
	GPIO	8-bit (4*GPI; 4*GPO), 5V
	CANbus	N/A
	HDMI	1
	LVDS	N/A
	DVI	N/A
	DisplayPort	1 (Mini-DP)
	VGA	N/A
	Antenna	4 (opening reserved 2 antennas)
<b>Power Supply</b>	DC Input	DC-in 12-24V Jack (5.5mm/2.5mm) / Phoenix pluggable with latch (Option support OCP/OVP Protection)
	AC Input	N/A
<b>Environment</b>	Operating Temperature	-10~50°C (W/ mSATA)
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
	Storage Humidity	10 ~ 90%, non-condensing
	Vibration	Operating: IEC 60068-2-64: 2 Grms, 5 ~ 500 Hz, 1hr/axis (w/ SSD)
	Shock	Operating: IEC 60068-2-27: 50G, half sine, 11ms (w/ SSD)
<b>Form Factor</b>	Dimensions (WxDxH)	153 x 130 x 35mm
	Weight	TBD
	Mounting	DIN-rail mount(STD)/Wall mount (by BOM option)/VESA mount(by BOM option)
<b>Certification</b>	EMC	FCC Class A, CE, RCM, VCCI, BSMI
	Safety	N/A
<b>Software Platform</b>	OS Support	Windows 10 (64-bit) Linux Fedora 25 (by request) Linux Ubuntu 16.04 (by request)