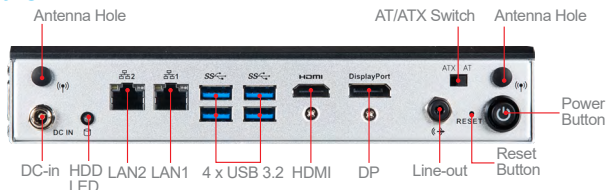


# MS-9A77

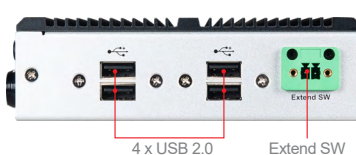
Din Rail Slim Box PC with Intel® Kaby Lake-U/Skylake-U Series Processor for IoT Edge Solution Computer



## Front IO

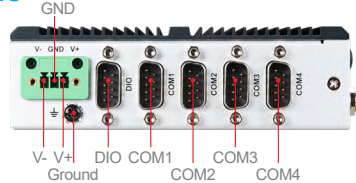


## Right IO



Thin 39.5mm  
Slim and Fanless design

## Left IO



## Features

- Intel® 6th Gen SkyLake Lake-U Series
- 1 DDR4 2133 MHz SODIMM Slots up to 16GB
- Dual independent displays: DP, HDMI
- 2 GbE LAN with RJ-45
- 1 Mini-PCIe (Full size, with SIM Holder), 1 Mini-PCIe (Full size, with mSATA) slots
- 4 USB 3.2 Gen 1, 4 USB 2.0, 4 COM(1 RS-485), GPIO, Audio
- Anti-Vibration & Shockproof Design to compliance IEC 61373
- Wide Voltage DC-IN 12~24V
- Ultra-Compact & fanless design with thinness 39.5mm

## Ordering Information

Part Number	Description
9S9-9A77-001	MS-9A77709-9A77-010/829-9A77-002 VER 11 Egde, Fullsystem, FANLESS, Memory 4G, mSATA 64G, Skylake-U 3955U, DIN-RAIL, 5*JUMPERS, 2*TERMINAL BLOCK, 19V/65W ADAPTER, USA POWER CORD, W/O MSI LOGO SINGLE
9S9-9A77-002	MS-9A77709-9A77-010/829-9A77-003 VER 11 Egde, Fullsystem, FANLESS, Memory 4G, mSATA 64G, Skylake-U 3955U, DIN-RAIL, 5*JUMPERS, 2*TERMINAL BLOCK, 19V/65W ADAPTER, EU POWER CORD, W/O MSI LOGO SINGLE

## Optional Item

Part Number	Description
S93-0406560-S14	Adaptor 19V/90W
E22-9A97010-LA2	Wall Mounting, 2pc
E43-1065016-P65	Wall Mounting Screw, 4pc
E25-9B01030-K23	Wall Mounting Rubber, 4pc

## Specifications

<b>System Processor</b>	CPU	Intel® Skylake-U Celeron® 3955U, DC, 15W
	Frequency	2 GHz
	L2 Cache	2MB
	CPU Type	BGA
	Chipset	N/A
<b>Memory</b>	BIOS	AMI
	Technology	Single-channel DDR4 2133 MHz
	Max. Capacity	4G (option up to 16G)
	Socket	1 x 260-pin SO-DIMMs
	Controller	Intel® HD Graphics
<b>Display</b>	Graphic Memory	Depends on CPU
	Multiple Display	2 independent displays
	Display Interface	HDMI 1.4 up to 4096 x 2160 @24Hz DP up to 3840 x 2160 @60Hz
<b>Ethernet</b>	Controller	1 x Intel® I210-AT GbE LAN 1 x Intel® I219-LM GbE LAN PHY
<b>Audio</b>	Controller	Realtek® ALC887-VD2-CG HD Audio Codec
<b>H/W Monitor</b>	Watchdog Timer	256-level Watchdog Timer
<b>TPM</b>	Smart Fan	N/A
<b>Expansion Slot</b>	Controller	N/A
<b>Storage</b>	Mini-PCIe	2 x Full-size (Mini-PCIe1 Slot w/ NANO SIM-Holder) (Mini-PCIe2 Slot w/ mSATA)
	SATA	N/A
	mSATA	64G (default)
	CFast	N/A
	CompactFlash	N/A
	RJ-45	2
	PoE	N/A
	Audio	1 x Line-out
	USB	4 x USB 2.0 4 x USB 3.2 Gen 1
	Serial	4 x COM ports COM1: RS-232/422/485, 0V/5V/12V COM2~4: RS-232, 0V/5V/12V
<b>I/O Interface</b>	Parallel	N/A
	PS/2	N/A
	GPIO	8-bit (4*GPI; 4*GPO), 5V
	CANbus	N/A
	HDMI	1
	LVDS	N/A
	DVI	N/A
	DisplayPort	1
	VGA	N/A
	Antenna	4 opening reserved 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
	IP Rating	N/A
<b>Environment</b>	Operating Temperature	-10~45°C (mSATA) -10~50°C (w/ WT devices) Note: Thermal w/ Airflow:0.7m/s
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
	Storage Humidity	10 ~ 90%, non-condensing
	Vibration	IEC61373 Category 1, Class A
	Shock	IEC61373 Category 1, Class A
<b>Form Factor</b>	Dimensions (W x D x H)	210 x 130 x 39.5 mm
	Weight	1.22 kg
<b>Mounting</b>		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	BSMI
<b>Software Platform</b>	OS Support	Windows 7 (32/64-bit) Windows 10 IoT Enterprise LTSC/SAC 1809 (64-bit, RS5) Linux (Support 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
S93-0401780-S14	Adaptor 19V/65W	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	5