

MS-9A84

M12 I/O Box PC with Intel® Kaby Lake-U Series Processor for Ultra Low-Power Fanless Solution



Power Button DC IN COM1 COM2



LAN2 LAN1 2 x USB3.0 HDMI

Features

- Ultra low power with fanless design
- 1 independent display: HDMI support up to 1920x1080@60Hz
- M12 type I/O connector design : 1*HDMI, 2*GbE LAN, 2*USB 3.0, 2*COM & 1*DC-in
- Dual Mini-PCIe for expansion
- Support DC in 12V~24V

Part Number	Description
939-9A84-002	MS-9A84\709-9A84-020 \829-9A84-005\ BAREBONE, STD VER 11, W/CPU CORE i3-7100U, 1*SATA CABLE, W/O LOGO, for Channel

Packing List

Part Number	Description	Quantity
K1D-1012064-V03	SATA CABLE, 200mm	1

Optional Item

Part Number	Description
K39-3001183-V03	External M12 DC Cable,1000mm
K3C-3001033-V03	External M12 HDMI Cable,2100mm
K37-3001058-V03	External M12 USB 3.0 Cable,1000mm
K3B-3001017-V03	External M12 RJ45 Cable,1800mm
K3B-3001018-V03	External M12 RJ45 Cable,500mm
K3A-3001015-V03	External M12 RS232 Cable,1800mm

Specifications

System Processor	CPU	Intel® Kaby Lake-U Core™ i3-7100U Processor, DC, 15W
	Frequency	2.4GHz
	L2 Cache	3MB
	CPU Type	BGA
	Chipset	Integrated in Process
Memory	BIOS	AMI
	Technology	Single-Channel for DDR4 2133 MHz
	Max. Capacity	Up to 16GB
Graphic	Socket	1 x 260-pin SO-DIMMs
	Controller	Intel® HD Graphics
	Graphic Memory	Shared system memory up to 1.7 GB SDRAM
	Multiple Display	1 independent display
Ethernet	Display Interface	HDMI1.4 up to 1920 x 1080 @60Hz
	Controller	1 x Intel® I210-AT GbE LAN 1 x Intel® I219-LM GbE LAN PHY
Audio	Controller	Realtek® ALC887-VD2-CG HD Audio Codec
H/W Monitor	Watchdog Timer	256-level Watchdog Timer
TPM	Controller	N/A
	M.2	N/A
Expansion Slot	Mini-PCIe	2 x Full-size (Mini-PCIe1 Slot w/ NANO SIM-Holder) (Mini-PCIe2 Slot w/ mSATA)
	Storage	1 x 2.5" HDD/SSD Bay
I/O Interface	mSATA	1 x Full-size
	RJ-45	2
	PoE	N/A
	Audio	N/A
	USB	2 x USB 3.0
	Serial	2 x COM ports COM1:RS-232/422/485 (without power) COM2:RS-232 (without power)
	GPIO	N/A
	CANbus	N/A
	HDMI	1
	LVDS	N/A
VGA	N/A	
Antenna	N/A	
Power Supply	DC Input	DC-in 12V~24V
	AC Input	N/A
Environment	IP Rating	N/A
	Operating Temperature	-10~45°C (HDD) -10~60°C (w/ WT Memory, SSD/mSATA)
	Operating Humidity	10 ~ 90%, non-condensing
	Storage Temperature	-20 ~ 80°C
	Storage Humidity	10 ~ 90%, non-condensing
	Vibration	Operating: 0.5 Grms, 5-500Hz, 3axes (w/ HDD)
	Shock	Operating: 3 G, half sine 11 ms duration (w/ HDD)
Physical characteristics	Dimensions (WxDxH)	215 x 155 x 55 mm
	Weight	1.66 Kg
	Mounting	N/A
Certification	EMC	FCC Class A, CE, RCM, VCCI, BSMI
	Safety	BSMI
Software Platform	OS Support	Windows 10 (64-bit) Linux Fedora 25 (by request) Linux Ubuntu 16.04 (by request)