

JEA-E93I

NXP i.MX 93
Arm-based Fanless Embedded BOX PC

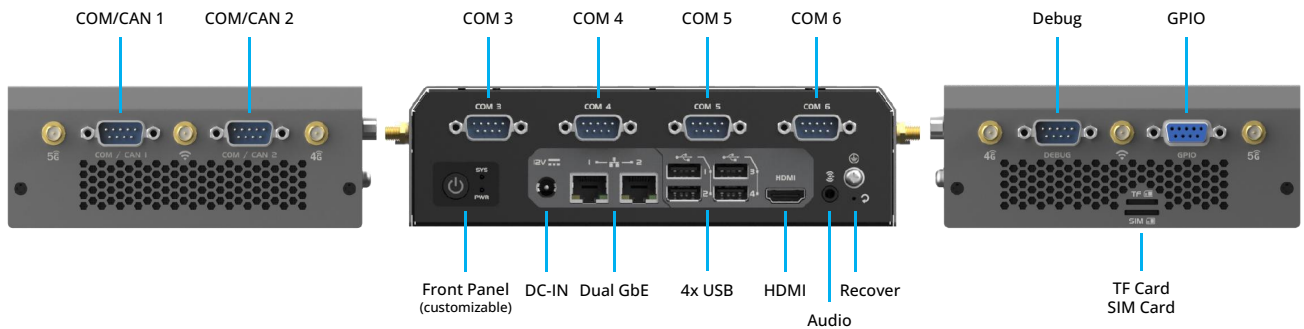


Features

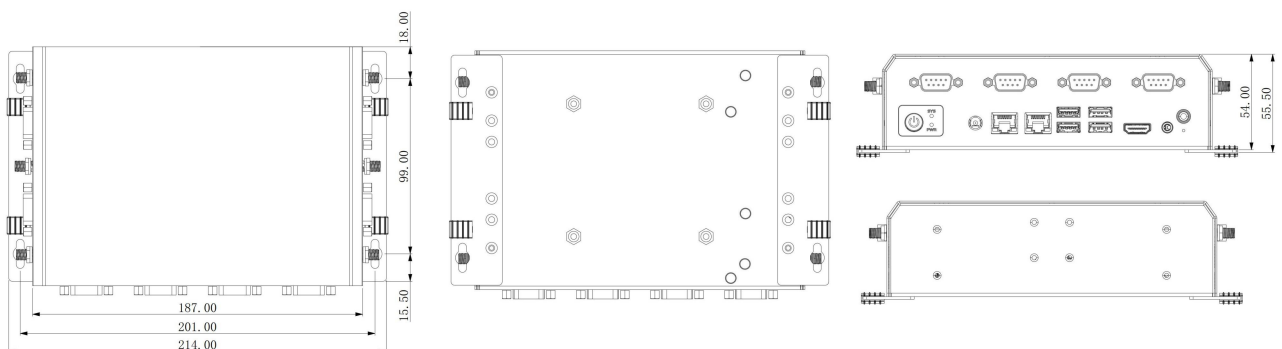
- Industrial grade NXP i.MX 93 SoC
- 2x Cortex-A55 + 1x Cortex-M33 + 0.5 TOPS NPU
- 2GB LPDDR4X + 8/16/32GB eMMC
- HDMI 1.4 display up to 1080p60
- 2x GbE, 2x CAN, 4x USB, up to 6x COM
- On-board WiFi+BT module + Mini PCIe for 4G
- Supports Yocto Linux+Qt, Ubuntu, Android
- Supports DIN Rail/wall/book-size/VESA mounting
- Supports -40~70°C operating temperature



Product View



Dimensions



System	SoC	NXP i.MX 9352	
	CPU	Dual core Arm Cortex-A55 up to 1.5 GHz	
	MCU	Arm Cortex-M33 up to 250 MHz	
	NPU	0.5 TOPS Neural Network performance	
	Memory	On-board 2GB LPDDR4X	
	Storage & Expansion	On-board 8GB/16GB/32GB eMMC 5.1 for OS 1x Micro SD slot for storage expansion or OS image flashing	
Video	Graphics Engine	NXP integrated 2D graphics acceleration	
	HW Video Codec	-	
	Interface	1x HDMI 1.4 Type-A up to 1080p60	
Audio	Audio Codec	ES8336	
	Interface	1x 3.5mm Line out	
Network	Ethernet	2x RJ45, 10/100/1000 Mbps, 4kV Surge protection	
	WiFi	On-board AW-CM358 WiFi 5 (802.11ac) + Bluetooth 5.2 module	
	5G/4G	1x Mini PCIe for 4G with Micro SIM slot	
I/O	Front I/O	4x USB 2.0 Type-A (1 supports OTG for OS image flashing) 2x RS-232/485 by DB9 2x RS-232/TTL by DB9	
	Side I/O	2x RS-232/CAN by DB9 7x GPIO+1x ADC by DB9 (3.3V TTL level) 1x debug port by DB9	
Other Features	Watchdog	Watchdog Timer & power on/off management	
	Real Time Clock	On-board RTC chip, battery-backed	
	Security	NXP integrated EdgeLock secure enclave	
Power	Power Input	12V DC-IN	Optional 9~36V DC-IN (typical 12/24V) with Reverse Polarity Protection
	Interface	5.5x2.5mm DC Jack	2-pole lockable terminal block
	System Ctrl & Monitoring	1x Power button, 1x Reset button 2x programmable LEDs	1x Reset button 2x programmable LEDs (by pin header)
Mechanical	Dimensions	187mm x 135mm x 54mm	
	Mounting	Wallmount, Bookmount, DIN Rail, VESA mount	
Software	OS Support	Yocto 4.2.3+Qt 6.5, Ubuntu (TBD), Android (TBD)	
	Boot Options	eMMC or SD, default to eMMC	
Environment	Operating Temp.	-40~70°C	
	Storage Temp.	-40~85°C	
	Humidity	10%~90% RH, non-condensing	
EMC & Safety	Compliance	IEC 61000-4-2 ESD level 3 (Contact ±6kV, Air ±8kV) IEC 61000-4-4 EFT level 4 (Power ±4kV, Ethernet ±2kV)	
	Certifications	CCC, CE Class B	

Part Number	SoC	Memory	Flash	WiFi	LAN	USB	COM	CAN	GPIO	Power Supply	Operating Temp.
JEA-E93I-ADMW1	i.MX 9352	2GB	16GB	Yes	2	4	4	2	7	DC 9~36V	-40~70°C
JEA-E93I-ADM01	i.MX 9352	2GB	16GB	Yes	2	4	4	2	7	DC 12V	-40~70°C

■ Packing List

Article	Description
24W Power Adaptor	AC 100~240V to DC 12V/2.0A
WiFi Antenna	2.4/5 GHz Dual band Antenna for WiFi
Horizontal Wall mount kit	Wall mount brackets with screws

■ Optional Accessories

Article	Description
60W Power Adaptor	AC 100~240V to DC 12V/5.0A
Power Cord	CCC 10A 250 V
4G Expansion kit	Quectel EC20 R2.1 LTE Cat 4 module with antenna (optional GNSS)
4G Expansion kit	Quectel EG25-G LTE Cat 4 module with antenna (optional GNSS)
Vertical Wall mount kit	Wall mount bracket with screws
DIN Rail kit	DIN Rail clamp with screws