

JEA-E68I

Rockchip RK3568J Arm-based Fanless Embedded BOX PC

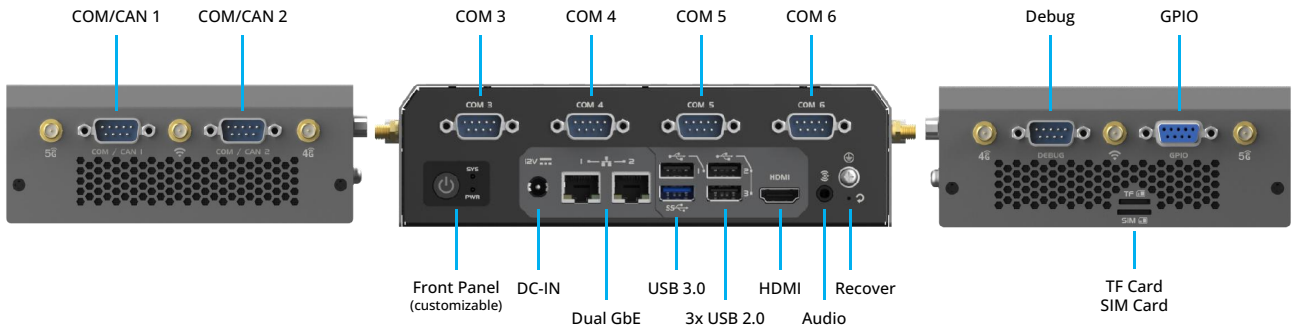


Features

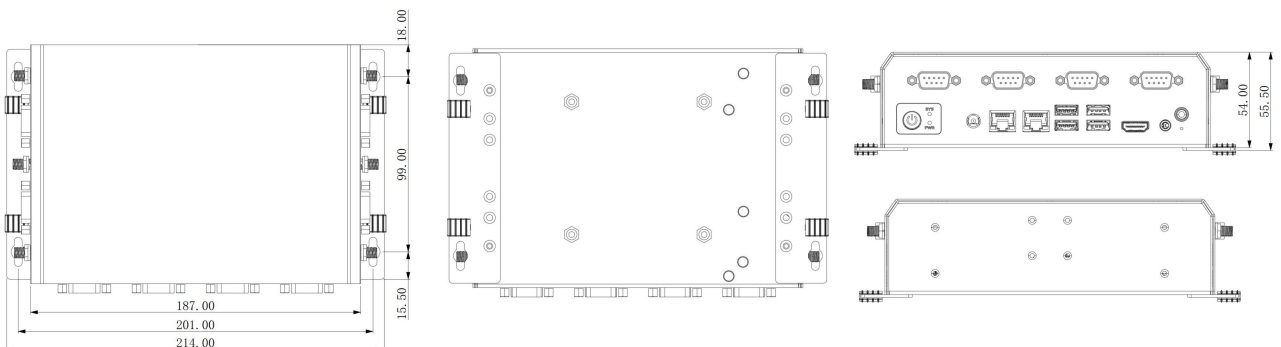
- Industrial grade Rockchip RK3568J SoC
- 4x Cortex-A55 + Mali-G52 GPU + 1 TOPS NPU
- 2/4/8GB LPDDR4/4X + 16/32/64GB eMMC
- HDMI 2.0a display up to 4K60
- 2x GbE, 2x CAN, 4x USB, up to 6x COM
- On-board WiFi+BT module + M.2 Key B for 5G/4G
- Supports Android, Debian, Ubuntu, OpenHarmony
- Supports DIN Rail/wall/book-size/VESA mounting
- Supports -40~70°C operating temperature



Product View



Dimensions



System	SoC	Rockchip RK3568J/RK3568B2	
	CPU	Quad core Arm Cortex-A55 up to 1.8GHz	
	MCU	-	
	NPU	1 TOPS Neural Network performance	
	Memory	On-board 2GB/4GB/8GB LPDDR4/4X	
	Storage & Expansion	On-board 16GB/32GB/64GB eMMC 5.1 for OS 1x Micro SD slot for storage expansion	
Video	Graphics Engine	Arm Mali-G52, supports OpenGL ES 1.1/2.0/3.2, Vulkan 1.0/1.1, OpenCL 2.0 FP	
	HW Video Codec	H.265/H.264/VP9/VP8 Decoder up to 4K60 H.265/H.264 Encoder up to 1080p60	
	Interface	1x HDMI 2.0a Type-A up to 4K60	
Audio	Audio Codec	RK809 PMIC integrated Codec	
	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 M.2 Key B for 4G/5G (USB 3.0) with Micro SIM slot	
I/O	Front I/O	1x USB 3.0 OTG Type-A, supports OS image flashing 3x USB 2.0 Type-A 2x RS-232/485 by DB9 2x RS-232/TTL by DB9	
	Side I/O	2x RS-232/TTL/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	-	
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 Recovery button 2x programmable LEDs	1x Recovery button 2x programmable LEDs (by pin header)
Mechanical	Dimensions	187mm x 135mm x 54mm	
	Mounting	Wallmount, Bookmount, DIN Rail, VESA mount	
Software	OS Support	Android 11, Debian 11, Ubuntu 18.04, OpenHarmony 4.0, Preempt-RT Linux	
	Boot Options	eMMC	
Environment	Operating Temp.	0~50°C / -20~60°C / -40~70°C optional	
	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-E68I-AQHW1	RK3568J	4GB	32GB	Yes	2	4	4	2	7	DC 9~36V	-40~70°C
JEA-E68I-AQH01	RK3568J	4GB	32GB	Yes	2	4	4	2	7	DC 12V	-40~70°C
JEA-E68I-BQH01	RK3568B2	4GB	32GB	Yes	2	4	4	2	7	DC 12V	0~50°C
JEA-E68I-BQL01	RK3568B2	2GB	16GB	No	2	4	6	-	7	DC 12V	0~50°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 EM05-CN LTE Cat 4 module with antenna (optional GNSS)
4G Expansion kit	Quectel EM05-G LTE Cat 4 module with antenna (optional eSIM & GNSS)
5G Expansion kit	Quectel RM500U-CN 5G Sub-6 GHz module with antenna
5G Expansion kit	Fibocom FM650-CN-23 5G Sub-6 GHz module with antenna
Heatsink for 5G module	Al. heatsink with thermal pad & screws
Vertical Wall mount kit	Wall mount bracket with screws
DIN Rail kit	DIN Rail clamp with screws