

JEA-E761

Rockchip RK3576J Arm-based Fanless Embedded BOX PC

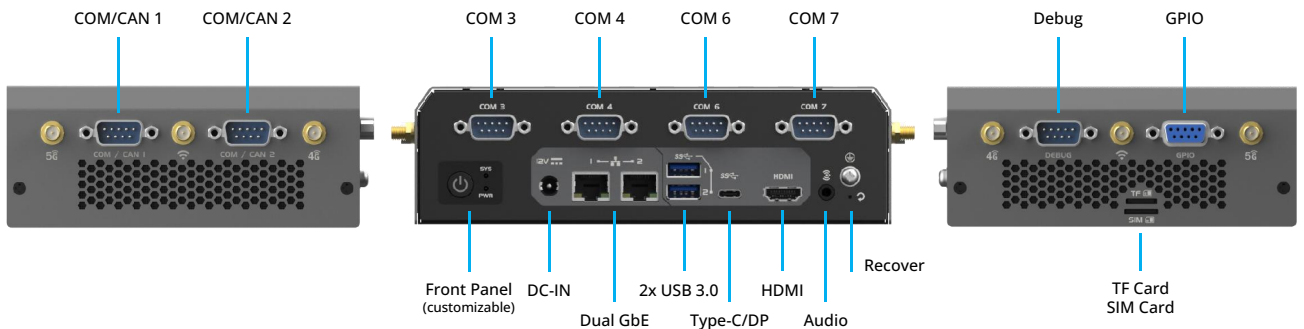


Features

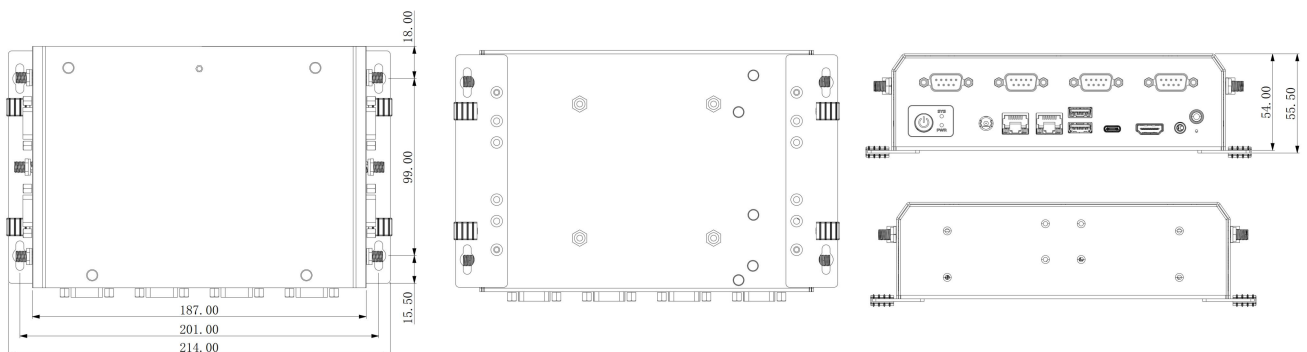
- Industrial grade Rockchip RK3576J SoC
- 4x Cortex-A72 + 4x Cortex-A53 + 6 TOPS NPU
- 4/8GB LPDDR4X + 32/64/128GB eMMC
- HDMI + DP (USB-C) Dual 4K display
- 2x GbE, 2x CAN, 3x USB 3.0, up to 6x COM
- On-board WiFi+BT module + M.2 Key B for 5G/4G
- Supports Android, Debian, Ubuntu, OpenHarmony
- Supports DIN Rail/wall/book-size/VESA mounting
- Supports -40~70°C operating temperature



Product View



Dimensions



System	SoC	Rockchip RK3576J/RK3576	
	CPU	Quad core Arm Cortex-A72 up to 2.3 GHz (consumer) / TBD (industrial) Quad core Arm Cortex-A53 up to 2.2 GHz (consumer) / TBD (industrial)	
	MCU	-	
	NPU	6 TOPS Neural Network performance	
	Memory	On-board 4GB/8GB LPDDR4X	
	Storage & Expansion	On-board 32GB/64GB/128GB eMMC 5.1 for OS 1x Micro SD slot for storage expansion	
Video	Graphics Engine	Arm Mali-G52 MC3, supports OpenGL ES 1.1/2.0/3.2, Vulkan 1.1, OpenCL 2.0 FP	
	HW Video Codec	H.265/H.264/VP9/AV1/AVS2 Decoder up to 8K30 or 4K120 H.265/H.264 Encoder up to 4K60	
	Interface	1x HDMI 2.1 Type-A, 1x DP 1.4 (USB-C) Supports dual independent display	
Audio	Audio Codec	ES8336	
	Interface	1x 3.5mm Audio (CTIA)	
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 Type-C with OTG/DP 2x USB 3.0 Type-A 2x RS-232/485 by DB9 2x RS-232/TTL by DB9	
	Side I/O	2x RS-232/CAN by DB9 8x GPIO 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	On-board Z32H330TC TPM 2.0 module (optional)	
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 14, Debian 12, Ubuntu (TBD), OpenHarmony (TBD)	
	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	TPM	LAN	USB	COM	CAN	GPIO	Operating Temp.
JEA-E76I-AOM01	RK3576J	4GB	32GB	Yes	No	2	3	4	2	8	-40~70°C
JEA-E76I-AOHT1	RK3576J	8GB	64GB	Yes	Yes	2	3	4	2	8	-20~60°C
JEA-E76I-BOM01	RK3576	4GB	32GB	Yes	No	2	3	4	2	8	0~50°C
JEA-E76I-BOHT1	RK3576	8GB	64GB	Yes	Yes	2	3	4	2	8	0~50°C

■ Packing List

Article	Description
60W Power Adaptor	AC 100~240V to DC 12V/5.0A
Power Cord	CCC 10A 250 V
WiFi Antenna	2.4/5 GHz Dual band Antenna for WiFi
Horizontal Wall mount kit	Wall mount brackets with screws

■ Optional Accessories

Article	Description
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