

IMMUNE

seeed studio

Rockchip
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reComputer RK 35xx Series

The Most Powerful Rockchip AI Box for Embodied AI



SCANNING

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Features

-  **RK3576/RK3588** 8-core 64-bit high-performance CPU
-  **6 TOPS NPU** for INT4/INT8/INT16/FP16 computing
-  **8K@60HZ Video Codec** for professional vision
-  **Modular PCIe Expansion** for storage and AI compute
-  **One-click AI Deployment** via Seeed reComputer AI Lab
-  **Onboard Wi-Fi 6 & BT5.4** ; supports 4G, LoRaWAN, and Wi-Fi HaLow

Specification

		reComputer RK3576	reComputer RK3588
SoC		Rockchip RK3576	Rockchip RK3588
	CPU	4x Cortex-A72@2.2GHz + 4x Cortex-A53@2.0GHz	4x Cortex-A76@2.4GHz + 4x Cortex-A55@1.8GHz
	GPU	ARM Mali-G52 MC3	ARM Mali-G610 MC4
	NPU	INT8@6TOPS; Supporting INT4/8/16/FP16/BF16/TF32 mixed operations	
RAM		LPDDR5: 4GB / 8GB / 16GB	LPDDR5: 8GB / 16GB / 32GB
Video Encoder		H.264 / H.265 multivideo encoder up to 4K@60fps	H.264 / H.265 multivideo encoder up to 8K@30fps
Video Decoder		H.265 / H.264 / AV1 / AVS2 multivideo decoder up to 8K@30fps	H.265 / H.264 / AV1 / AVS2 multivideo decoder up to 8K@60fps
Storage		1x microSD Card Slot; 1x SPI Flash for Bootloader	1x microSD Card Slot; 1x SPI Flash for Bootloader
Ethernet		1x Gigabit Ethernet; 1x Gigabit Ethernet with PoE support(Additional PoE Module Required)	1x 2.5 Gigabit Ethernet; 1x 2.5 Gigabit Ethernet with PoE support(Additional PoE Module Required)
Onboard WiFi6 & BT5.4 with FPC Antenna			
1x miniPCIe for 4G/LoRaWAN/Wi-Fi Halow			
1x SIM Card Socket			
PCIe	M.2 Key M 2280	PCIe2.1x 1 for NVMe SSD or AI Accelerator	PCIe3.0x 4 for NVMe SSD or AI Accelerator
	M.2 Key M 2242	-	PCIe2.1x 1 for NVMe SSD or AI Accelerator
I/O	USB	1x Type A USB 3.0; 3x Type A USB 2.0; 1x Type C for OTG & DP	4x Type A USB 3.0; 1x Type C for OTG & DP
	CSI Camera	2x 4-lane MIPI CSI(22pin)	
	Display	1x HDMI2.1; 1x DP1.4 via USB Type C port; 1x 4-lane MIPI DSI(22pin)	2x HDMI2.1; 1x DP1.4 via USB Type C port; 1x 4-lane MIPI DSI(22pin)
	Video Input	-	
	Audio	1x 3.5mm Headphone Jack with Microphone Input	
Miscellaneous	Button	1x Power; 1x Recovery; 1x MaskROM	
	LED	1x Power; 1x Status; 1x User;	
	RTC	1x 2-PIN Header	
	FAN	1x 4-PIN Header	
	GPIO	1x 40-Pin Expansion header	
Power Supply		9V-19V DC	
Dimension (W x D x H)		123mm x 93mm x 51mm(PCBA: 115mm x 85mm)	
Warranty		1-year	
Operating Conditions		0 ~ 60°C	
Compliance Certification		FCC/CE/TELEC/RoHS	

Contact edge@seeed.cc

Tech Support

Business Enquiry

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