



NUC-AR3588RK

Fanless Embedded System with Rockchip® RK3588 SoC
Cortex-A76 & Cortex-A55 Quad Core Onboard



Features

- Compact and Fanless Design
- Rockchip® RK3588 SoC
- Quad Core Cortex-A76 & Quad Core Cortex-A55
- 8GB LPDDR4 Memory Onboard
- 64GB eMMC Onboard
- Mali G610 MP4 Integrated Graphic
- 2 x DisplayPort 1.3 4K@60Hz
- 1 x HDMI Input
- USB Type C OTG
- 4 x USB 3.2 Gen1x1, 2 x USB 2.0
- Dual LAN Ports
- 2 x SMA Jacks
- 12V-24V DC-in, Locking Barrel Type DC Jack
- 100mm x 100mm VESA Mount Integrated
- Din Rail Mounting Kit (Optional)

SPECIFICATIONS

System	
Motherboard	AR3588RK
Processor	Rockchip® RK3588 SoC Quad Core Cortex-A76 & Quad Core Cortex-A55
Memory	8GB LPDDR4 Memory Onboard
Display Chipset	Mali G610 MP4 Integrated Graphic Vulkan 1.2, OpenGL ES 3.2, OpenCL 2.2, 4K 60fps Encoding, 4K 90fps Decoding, HEVC/H.264 1 x HDMI Input up to 4k 60Hz 2 x DisplayPort 1.3 4K@60Hz
Ethernet	1 x Realtek® RTL8211F 1 x Realtek® RTL8111H
Audio Codec	HD Audio Codec
Expansion	1 x M.2 M-Key 2280/2242 NVMe (PCIe Gen3 x4 Singal) 1 x M.2 E-Key 2230 (PCIe x1 + USB Signal) 1 x MicroSD Socket
Storage	64GB eMMC Onboard
System Fan	Fanless
Supported OS	Linux
External I/O - Rear	
Display	2 x DisplayPort 1 x HDMI Input
USB	4 x USB 3.2 1 x USB 2.0 Type C OTG
LAN	2 x RJ45
Audio	1 x Line-out
DC	1 x 6 Pin Mini Fit-Jr Panel Mount Connector
SMA	2 x Knockout for SMA Connectors



Fanless



Triple Displays



1 x USB Type C



Dual LAN



DC 12-24V

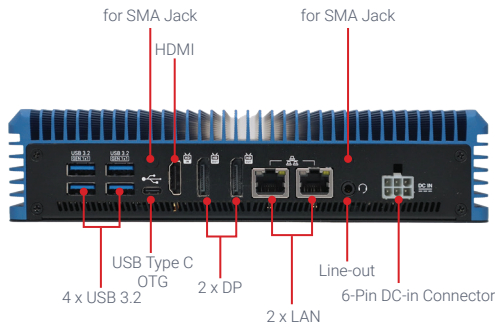
External I/O - Front

USB	2 x USB 2.0
Power	1 x Power Button
MIO	1 x Reset Switch 1 x HDD LED

Mechanical, Power, and Environment

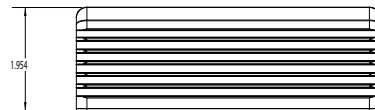
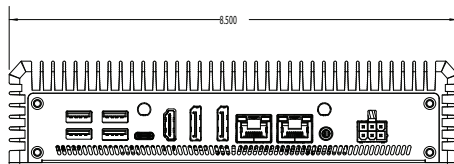
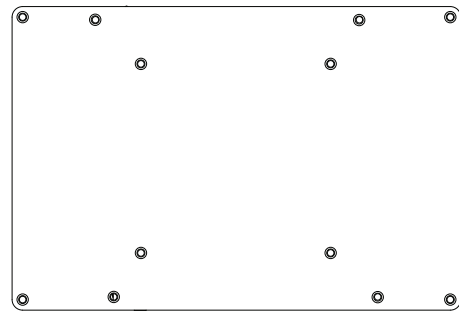
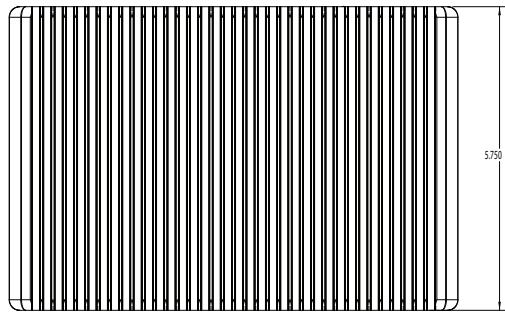
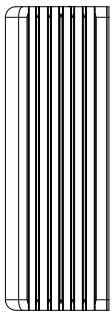
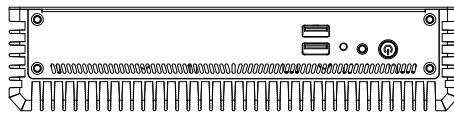
Power Requirement	12V-24V Wide Range DC-In
Power Adapter	19V 120W Power Adapter
Operating Temp	0° ~ 50°C (32° ~ 122°F)
Storage Temp	-20° C ~ 75° C (-14°F ~ 167°F)
OP Humidity	5% ~ 85% Relative Humidity, Non-condensing
Cooling Design	Fanless through Aluminum Fin
Mounting	100mm x 100mm VESA Mount Integrated Din Rail Mounting Kit (Optional)
Certification	CE, FCC Class B, RoHS, REACH, Conflict Mineral, UL Compliance (Designed to Comply Only)
Dimensions	8.50" x 5.75" x 1.96"
Weight	4 lbs (1.8 kgs)

SPECIFICATIONS / ADDITIONAL PRODUCT PHOTOS



DIMENSIONS

Unit: inch



ORDERING INFORMATION

Model Name	CPU/CPU Socket	Memory / Storage	Ethernet / LAN	Power Info
NUC-AR3588RK	Rockchip® RK3588 SoC Cortex-A76 & Cortex-A55 Quad Core	8GB LPDDR4 64GB eMMC	2 x GbE LAN	DC-in 12-24V

PACKING LIST

- ✓ 1 x NUC-AR3588RK Computer
- ✓ 1 x 19V Power Adapter

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