

KMDA-CNR351

Rockchip RK3588 CPU, Onboard memory, 64GB eMMC, 4*LAN, 2*USB3.0, 2*USB2.0, 1*HDMI, 2*COM, 1*DIO, 2*CAN, 1*Audio out, 1*Mini PCIe, 1*M.2 M-Key, WIFI6+BT5.0, DC 9-36V.

JHCTECH

IoT Computer
Connecting the Data

Fanless Computer——KMDA Series



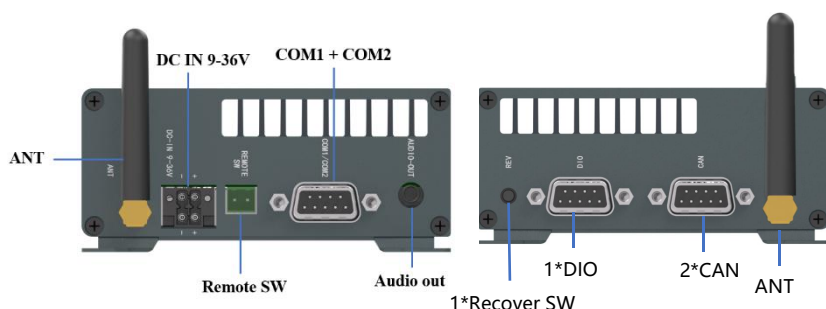
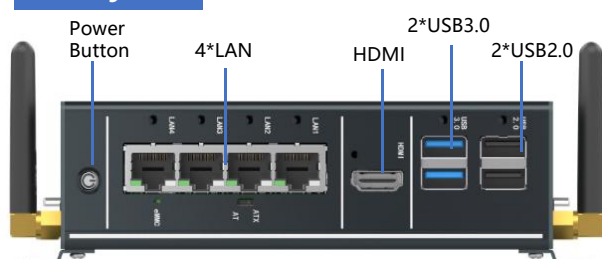
Key Features

- Aluminum magnesium alloy profile shell with fanless heat dissipation design
- Rockchip RK3588 CPU, 4-core Cortex-A76 and 4-core Cortex-A55, 2.4GHz
- Onboard 4GB, 8GB, or 16GB LPDDR4 memory
- Onboard 64GB eMMC + 1*M.2 2242 M-Key dual storage
- 1*HDMI single display, 1*Audio out
- 4*LAN, 2*USB3.0, 2*USB2.0, 2*COM, 1*8bit DIO, 2*iso. CAN2.0
- 1*Full size Mini PCIe, with SIM card slot, supports 4G LTE
- onboard Gigabit WiFi/Bluetooth 5.0
- DC 9~36V wide power input, with overcurrent, overvoltage and reverse connection protection

Product Overview

KMDA-CNR351 is a domestic fanless cabinet computer with Rockchip RK3588 processor, onboard 4GB, 8GB or 16GB RAM and 64GB eMMC storage. HDMI display, 4*LAN, 2*USB3.0, 2*USB2.0, 2*COM (1*RS485, 1*RS232), 1*8bit DIO, 2*isolated CAN2.0, 1*M.2 2242 M-Key, 1 full-height Mini PCIe, onboard WIFI6+BT5.0. DC 9-36V wide voltage power supply, suitable for logistics visual inspection, AGV, AMR and intelligent networked vehicle MEC and other industry applications.

IO Layout



Product SPEC

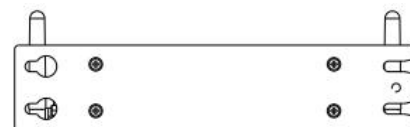
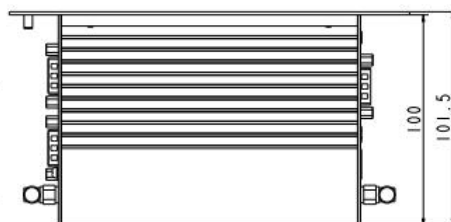
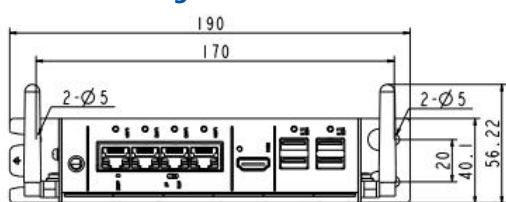
CPU	Rockchip RK3588 CPU, 4-core Cortex-A76 and 4-core Cortex-A55, 2.4GHz Primary Frequency
Memory	Onboard memory, 4GB/8GB/16GB LPDDR4
GPU and VPU	Mali-G610 GPU, supports OpenGL ES3.2/OpenCL2.2/Vulkan1.1, embedded with high-performance 2D and 3D acceleration hardware, GPU with independent HDMI display, resolution of 1920x1080@60fps ; VPU decode: H.265/AVS2/VP9, 8bits/10bits, 8K@60fps ; H. 264/AV1, 8bits/10bits, 8K@30fps ; Multi channel decoder in parallel for less resolution (4K/1080p/720p, etc.) VPU code: H.265/H.264, 8K@30fps ; Multi channel encoder in parallel for less resolution (1080p/720p, etc.), Multi format Video Decoder
NPU	Supports 6.0T computing power, supports INT4/INT8/INT16/FP16 operations
Expansion	1*Full size Mini PCIe, with SIM card slot, supports 4G LTE or other IO function modules
Audio	Realtek ALC5640 audio chip, Audio OUT
LAN	2*RTL8211F RJ45 LAN + 2*RTL8111H RJ45 LAN, 10/100Mbps adaptive or 10/100/1000Mbps adaptive, onboard Wifi6/BT5.0 wireless functionality
Storage	Onboard 64G eMMC, 1*M.2 2242 M-key NVMe storage
I/O Interface	4*RJ45 Gig-LAN (Interface anti detachment design) ; 2*USB3.0 Type A, 2*USB2.0 Type A (Interface anti detachment design) , 2xUSB2.0 (Built in DuPont pin interface); 2*COM (1*RS485 and 1*RS232, RS232 is a 3-wire signal, placed in one DB9 interface); 1*8bit DIO, DB9 interface; 2*2.5KV optical iso. CAN (CAN Open2.0) , 1*DB9 interface; 1*Audio-out (1x3.5 phone jack), 1*HDMI
LED	1*Power LED(on power button), 1*HDD LED
Control SW	1*Power Button, 1*Remote SW, 1*Recover SW
Power Supply	DC 9~36V wide power input, with reverse connection, over voltage and over current protection TDP: 13.32W(12V/1.11A, 8GB+64GeMMC)
OS Support	Android、Linux

Structure	Aluminum-magnesium alloy, SGCC frame
Color	Granite gray + Graphite black
Mounting	Desktop mounting, optional DIN-rail mounting or Wall mounting
Dimension	(W*H*D): 143.4*100*40mm(Without mounting bracket) 176.5*100*44.2 mm(With horizontal mounting)
Net weight	0.696KG
Operating Temperature	-20°C ~ 60°C, SSD, air flow
Storage Temperature	-40°C~85°C
Storage Humidity	10~95%@40°C, Non-condensing
Vibration	5grms/5~500Hz/random/in working (SSD); 1grms/5~500Hz/random/in working (HDD)
Shock	50g peak acceleration(11ms duration)(SSD); 20g peak acceleration(11ms duration)(HDD)
Certification/EMC	CE/FCC Class A

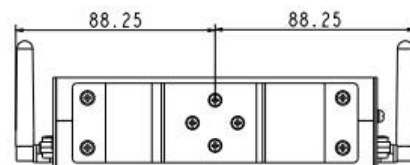
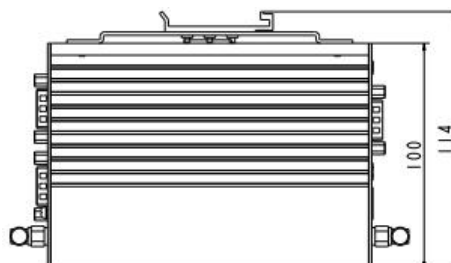
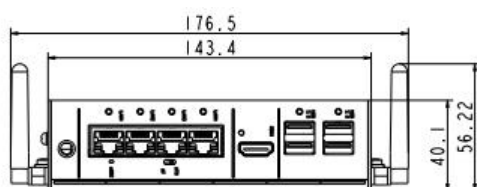
Dimension

Unit: mm

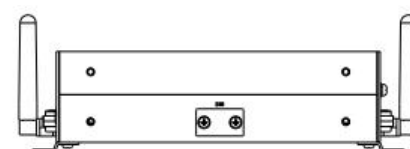
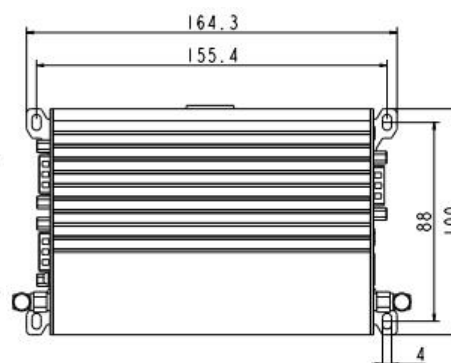
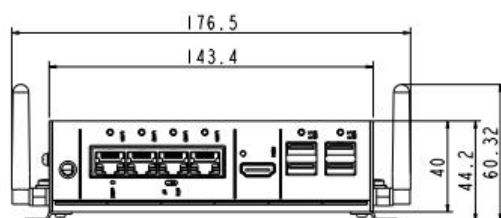
Wall mounting



Din-Rail mounting



desktop mounting



Ordering Info.

Model No.	Memory	Introduction
KMDA-CNR351-S001-4G	4GB LPDDR4	Fanless box computer, Rockchip RK3588 CPU, 64GB eMMC, 4*LAN, 2*USB3.0, 2*USB2.0, 2 *COM (1*RS485, 1*RS232), 1*8bit DIO, 2*Iso. CAN2.0, 1*HMDI, Audio out, 1*Mini PCIe, 1*M.2 2242 M-Key, on-board WIFI6+BT5.0, DC 9-36V
KMDA-CNR351-S001-8G	8GB LPDDR4	
KMDA-CNR351-S001-16G	16GB LPDDR4	
PA-60DC12	AC/DC power adapter, DC12V/5A, 60W	
Wall mounting	Stainless steel wall mounting bracket	
Din-Rail mounting	R351 main box stainless steel bracket + 1 Din-Rail fastener	