

LDF-310

ARM INDUSTRIAL COMPUTER

Rockchip® RK3576 processor

RK1820 / RK1828

2

1 x HDMI, 1 x HDMI IN
Up to 3840 x 2160 @60 Hz

Support Wi-Fi/BT module

CPU

CPU	Rockchip® RK3576 processor
Total Cores	4 Cores Cortex-A72 & 4 Cores Cortex-A53
NPU	6 TOPS
AI Accelerator Module	RK1820, 20 TOPS @INT8 (Optional: RK1828)

Network

Network Controller	2 x Realtek RTL8211F
Ethernet Interface	2 x 1GbE RJ45
Wi-Fi/BT	Onboard Wi-Fi 6/BT5.4

System

System Memory	4 GB, Onboard LPDDR4x, 1 Channels (Optional: 8GB)
	RK1820 2.5 GB, Onboard LPDDR4 RK1828 5 GB, Onboard LPDDR4
Storage	64 GB, Onboard eMMC (Optional: 128 GB) 1 x TF Card Reader
TPM	NA
Watchdog Timer	NA
Auto Power On	NA
RTC	Set up independently every day, a week as a cycle
Power Requirement	DC-IN, 9 ~ 36V
Dimensions	162mm x 130mm x 60mm (6.37" x 5.12" x 2.36")
Construction	Metal, Grey
Cooling System	Smart fan, active cooling
Operating System	Debian12
Operating Temperature	0°C ~ 60°C (32°F ~ 113°F) @0.7m/s Air Flow
Humidity	5% ~ 90% @40°C (non-condensing)
Certifications	CE, FCC Class B, UKCA

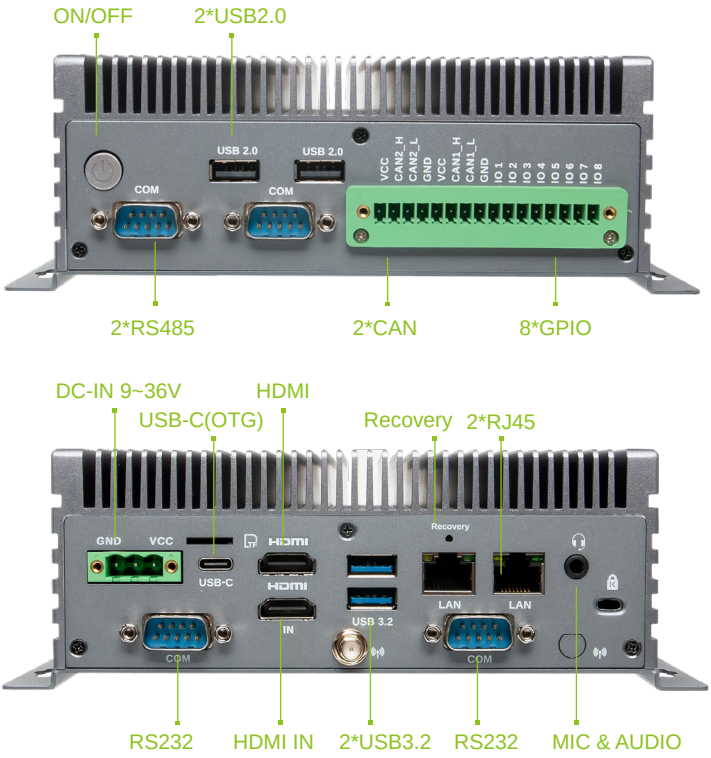
Display

GPU	ARM Mali-G52 MC3
Graphic Engine	OpenGL ES 1.1/2.0/3.2, OpenCL 1.1/1.2/2.0, Vulkan 1.1
Display Interface	1 x HDMI (Max. 3840 x 2160 @60Hz) 1 x HDMI IN (Max. 3840 x 2160 @60Hz)
# of Displays Supported	2

I/O interface

USB	2 x USB 3.2 Gen1, 2 x USB2.0 1 x USB Type-C (USB-OTG, DP)
Phoenix Contact	16pin, 2 x 4pin CAN, 8GPIO
Serial Port	2 x RS232 (DB9), 2 x RS485 (DB9)
Button	1 x Power on, 1 x Recovery
Audio	1 x 2-in-1 headset (MIC-IN & AUDIO-OUT)
Antenna	1 x Connector for Wi-Fi/BT

Dimensions and Drawing



Order information

LDF-310	CPU: Rockchip® RK3576 processor AI Accelerator Module: RK1820 RAM: 4 GB Storge: 64 GB
	CPU: Rockchip® RK3576 processor AI Accelerator Module: RK1828 RAM: 8 GB Storge: 128 GB
Packing List	1 x Wi-Fi Antenna, 1 x AC Power Cable, 1 x AC Power Adapter

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