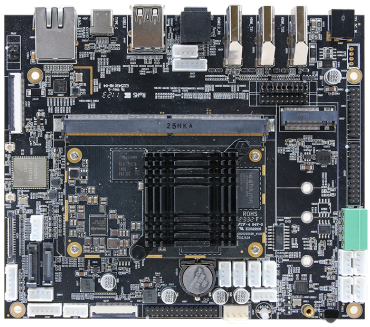
ACP-3588

Octa core Single Board Computer



Product Features

- Rockchip RK3588 quad-core Cortex-A76 and quad-core Cortex-A55 with main frequency up to 2.4GHz. support 4GB LPDDR4 RAM and 32GB eMMC.
- Supports a variety of peripheral interfaces such as M.2/SATA3.0/SPDIF/USB3.0/USB2.0
- Supports for GPIO / UART / SPI / I2C / RS232 and other extended interfaces.
- With a variety of video output interfaces, used with LVDS / EDP / HDMI/ MIPI for the display screen.
- Supports gigabit cable network port and supports 2.4G / 5G dual-frequency wifi and Bluetooth.

Specification

System Information	
Processor	Rockchip RK3588 Quad core Cortex A76 and Quad core Cortex A55 up to 2.4GHz
System Memory	4GB LPDDR4 RAM

Software Support	
OS	Android 12.0
AI SDK GitHub	https://github.com/Avalue-Technology/repositories.directory

Expansion	
Expansion	2 x SATA 3.0 1 x M .2 Key M NGFF 75Pin

Storage	
Storage	32GB eMMC

Certification

Certification Information	CE, FCC

I/O

Communication	2 x 20P pitch 2.0mm GPIO/UART/SPI/I2C 2 x I2C 4 x UART 1 x CAN
Display	2 x HDMI 2.1 out 8Kp60 or 4Kp120 1 x LVDS 8K p 60 1 x EDP 4K p 60
Video Input	1 x MIPI DSI 1 x H DMI in 4K p 60
Audio	1 x 30P, pitch 0.5mm (microphone array) 1 x SPDIF left and right stereo sound output 2P row seat
USB Port	1 x USB Host 2.0 1 x USB Host 3.0 1 x USB OTG 2.0 (Type C) 2 x USB Host 2.0（4P pitch 2.0mm）
Network	1 x Ethernet RJ45,1000M
WIFI	2.4G /5G dual band WiFi 6

Characteristics

Board Structure	Core Board + Carrier Board

Mechanical & Environmental

Operating Temp.	-5 ~ 65°C
Storage Temp.	-10 ~ 70°C
Dimension (L x W)	150 x 20 x 125mm
Weight	TBD
Operating Humidity	5% ~ 90% Relative Humidity, Non condensing
Power Requirement	DC 12V 2A