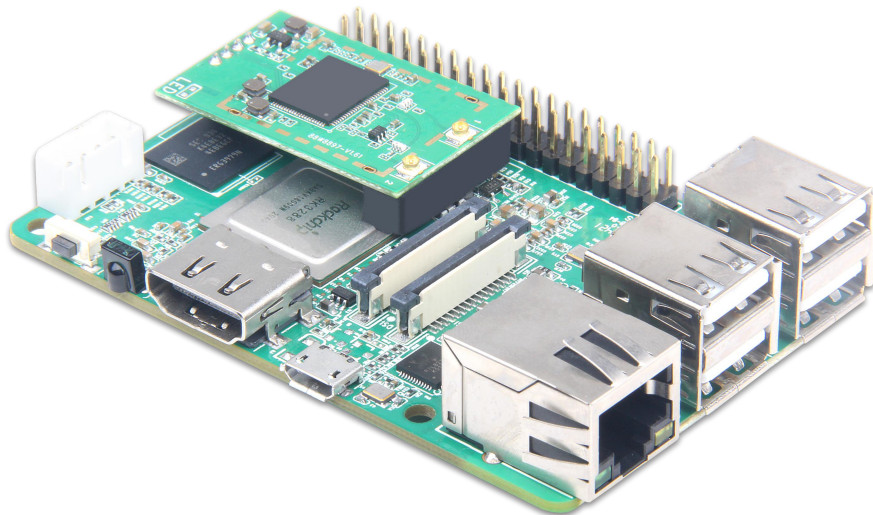# Raspberry PI Quad-core Open Source Motherboard XPI-3288

Geniatech's XPI-3288 is a cost-effective open source motherboard, powered by The Rockchip RK3288 quad-core Cortex-A17, with a main frequency up to 1.8 GHZ, stable operation, strong hard decoding capability and rich expansion interfaces.

- Rockchip RK3288 is a high-performance application processor for high-end tablet computers：It integrates the ARM Cortex-A17 with the Neon and FPU co-processors, respectively, and has many high-performance interfaces to provide very flexible solutions, such as as a multi-channel display with dual channel LVDS, dual channel MIPI-DSI, eDP1.1, HDMI2.0,And embedded 13MP ISP dual channel MIPI-CSI2 interface.

- Card board：The motherboard specification is like the bank card, which is convenient to use and does not occupy the position. It is also convenient to carry.

- Remote Device Management System (MDM)：Supports remote diagnosis of problems, control of online devices, remote management of content distribution, application deployment and service push.

- Rich interface, can meet a variety of extensions

  1. Supports four USB2.0 channels, which are powered by MICRO USB

  2. Support a variety of display interface: MIPI DSI*1,HDMI2.0*1,

  3. Supports MIPI cameras

  4. Built-in 40PIN extended interface, including common GPIO, SPI, I2C, UART, PWM, PCM/I2S, SPDIF.

- Gigabit Ethernet can provide 1Gb/s communication bandwidth,a smoother data transmission experience.

- Supports multiple operating systems：Stable operation of Android, Linux operating system, reliable performance.

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Product Specification

CPU Frequency	Quad-core Cortex-A17 up to 1.8GHz
GPU	Mali-T764 GPU
Internal Memory	Up to 2 GByte LPDDR3
Internal Storage	Up to 16 GByte eMMC
OS	Android 7.1 and Linux
Ethernet	100/1000M
WIFI/BT	Bluetooth/NFC Single-Chip SoC IEEE 802.11ac/n/a/g/b, Bluetooth 4.0
USB	USB2.0*4,Micro USB*1
TF slot	MAX256G
HDMI	HDMI OUT*1
MIPI	MIPI CSI*1 ,MIPI DSI*1
Remote Control	Support IR and USB remote control
I/O	28 * GPIO Pins 2 * SPI Bus 2 * I2C Bus 4 * Uart 2 * PWM 1 * PCM/I2S 2 * 5V Power Pins 2 * 3.3V Power Pins 8 * Ground Pins
Power	Micro USB 5V/2A
Size	88 x 58 x 19.5 mm
weight	53g

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