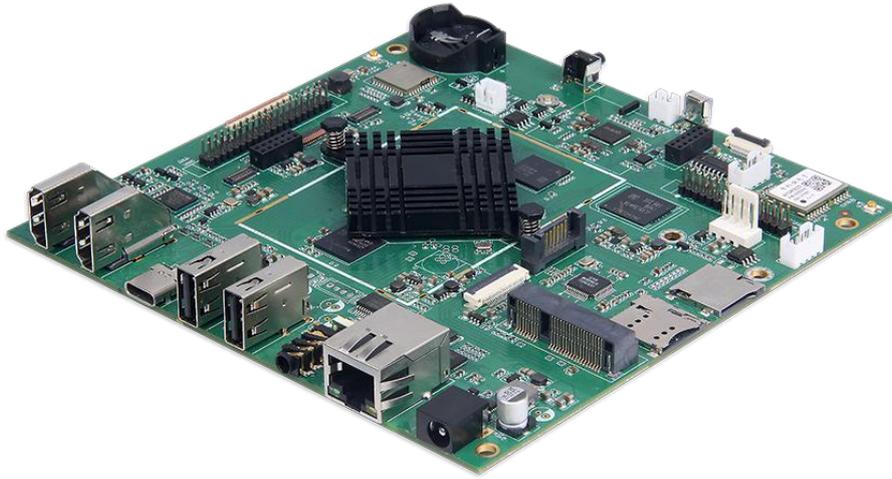


RK3566 Development Board



Geniatech's RK3566 Development Board Can be used for third party development or testing, can also be directly equipped with the screen, is a high cost performance motherboard

- High performance: CPU adopts 4-core A55 architecture processor, integrated G52 graphics processor, and built-in independent NPU, computing power of 0.8TOPS(For AI video, simple face recognition) 8M ISP

- Multi-operation system: Android 10.0 and Linux(Buildroot/Debian/Yocto)

- M.2 supports PC1e2.1, Compatible with extensible Super-small interface for large storage capacity

- Support double gigabit transmission rate, can support the use of dual network segment Internet

- High scalability: the equipment adopts standard interface, rich interfaces: LVDS, EDP, SATA, M.2, USB3.0, multiple USB2.0 interfaces, HDMI IN (MIPI),HDMI OUT, GTIOT, SPDIF, RF, 40Pin-XPI, Double Gigabit Network Interface (RGMII0/RGMII1) DEBUG, RS-232, MICPHONE, POE

- High reliability: industrial-grade motherboard design, strict quality control, 7*24h uninterrupted continuous stable operation

- Support 2-way MICPHONE, double MIC matrix can be used for noise reduction, sound picking more accurate, to meet the meeting and other requirements for the scene of pitch picking Ambient noise/voice/pick up voice/filter noise

- Remote wake up, restart, standby and other operations

Product Specification

CPU Frequency	Rockchip RK3566 quad-core Cortex-A55, up to 2.0 GHz
GPU	Arm Mali-G52 GPU, support OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1
Internal Memory	Up to 4 GByte LPDDR4
Internal Storage	Up to 128 GByte eMMC 5.1
OS	Android 11.0 and Linux(Buildroot/Debian/Yocto)
ETHERNET/WIFI/BT	1 x GIGABIT Ethernet/802.11AC(AX is optional)/BT5.0
WATCHDOG & RTC	Yes
I/O	<p>1 x PCIe 3.0(M.2 Slot)</p> <p>1 x Dual Channel 24-bits LVDS(MIPI DSI)</p> <p>1 x eDP 1.3</p> <p>1 x HDMI2.1, up to 4096 x 2160@60Hz(Output)</p> <p>1 x HDMI IN, Up to 4096 x 2160@30Hz</p> <p>1 x SATA3.0</p> <p>1 x USB3.0 Type-A, 1 x USB2.0 Type-A,3 x USB2.0 4 Pin Slot</p> <p>2 x Antenna Slot(WIFI/BT)</p> <p>1 x GTIoT</p> <p>1 x POE(Optional)</p> <p>1 x TF Card Slot(Up to 512GB)</p> <p>1 x RF(Tuner RF In, Default ATSC , DVB-T/DVB-T2/ISDB-T/DMBT is optional)</p> <p>3 x Serial Port(2 x 2-wire UART , 1 x 2-wire UART/Debug)</p> <p>1 x MIPI CSI RX(1 x 4-lane MIPI CSI)</p> <p>12 x GPIO(1 x PWM)</p>
Power	DC 12V/2A
POE	Optional