

Rockchip RK3128 Cortex-A7 Processor

LP-150



Features

- Quad-core Cortex-A7 is integrates with separately Neon and FPU coprocessor, also shared 256KB L2 Cache
- Mali400 MP2 GPU is embedded to support smoothly high-resolution (1080p) display and mainstream game
- Support HDMI port, RJ-45 LAN port
- Support four USB 2.0 ports
- Support one single-channel 18/24-bit LVDS connector
- Small form factor and low power design
- Fanless and ultra-low power consumption
- 8GB onboard eMMC Flash memory
- Support Micro SD card slot for expandable storage

System

Processor	Rockchip RK3128 Quad-core Cortex-A7
Speed	Cortex-A7@1.3 GHz
Memory	512MB DDR3
Real Time Clock	Integrated RTC onboard
GPU	Mali400 MP2 GPU is embedded

Graphics

3D	OpenGL ES1.1 and 2.0, OpenVG1.1
2D	Bit Blit with Strength Blit, Simple Blit

Display

HDMI	Integrated HDMI 1.4 output up to 1080P
LCD Control	Maximum resolution is 1280x720 pixels
Display	Default 1024x600 LVDS LCD panel
Touch	Default Capacitive 1024x600 touch screen

Software support

OS	Compatible with Android 4.4.4
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Mechanical & Environmental

Power	DC Input 5V
Size & Thickness	100 mm x 72mm (L x W)
Temperature	Operating within 0°C~70°C (32°F~158°F) Storage within -20°C~80°C (-4°F~176°F)
Relative Humidity	10%~90%, non-condensing

I/O

Flash Support	1 x 8GB onboard eMMC 1 x Micro SD card slot
Audio	Rk3128 Built-in Stereo Audio CODEC
LAN	RTL8211E Ethernet Transceiver
Internal I/O	1 x Pin header for RS232 x 2 1 x LVDS panel connector 1 x LVDS inverter connector 1 x RTC battery slot and Pin header 1 x Pin header for UART x 3 1 x Audio pin header for line-out and MIC-in 1 x Power button 1 x Recovery button 1 x system reset button, power LED 1 x Pin header for expand GPIO
External I/O	1 x Micro SD card slot 1 x HDMI port 1 x USB Host 2.0 ports 1 x USB OTG 2.0 port 1 x RJ-45 LAN port 1 x 5V DC-in power 1 x WiFi SMA Antenna connector