POLYHEX

Small Size Embedded Motherboard based on RK3288 Quad Core CPU
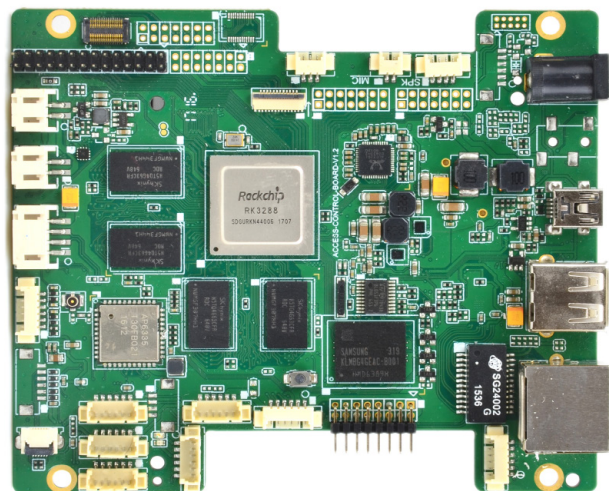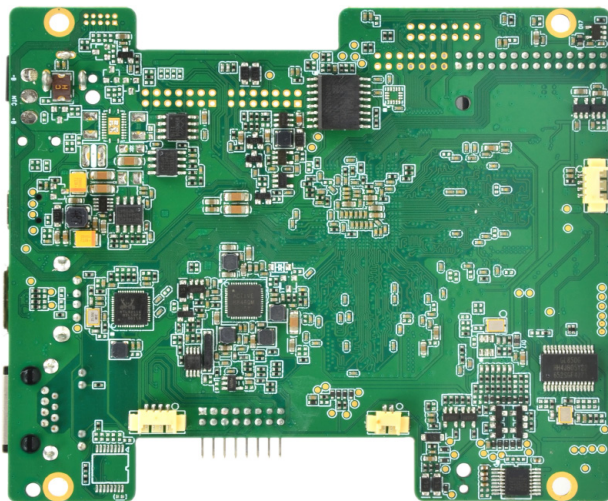
Features:

· Onboard with Rockchip RK3288 Cortex-A17 Quad Core CPU
· Onboard 2GB DDR3 (up to 4GB)
· Onboard 8GB eMMC (default, 16G, 32G optional)
· Video out: 1 x MIPI DSI, 1 x HDMI, 1 x EDP
· Video in: 1 x MIPI CSI, 1 x 8bit Parallel CIF camera IN
· 1 x USB OTG, 2 x USB 2.0, 1 x Lan, 1 x POE
· 4 x GPIO, 2 x RS232
· TP: 1x IIC Interface Touch Panel
· Support Android 7.1, Linux Debian 9

Board Description:

 EMB-RK3288-MJ is a customized motherboard for a smart face recognition access controlling system. It is onboard with RK3288 Cortex-A17 Quad Core CPU, 2GB DDR3 Ram and 8GB eMMC. The board is connected with a touch panel by MIPI port, a doorbell and door lock by GPIO port, and a camera for collecting face information. It is thin and small in size and with ultra-low power consumption.

Specification：

CPU	Rockchip RK3288 ARM Cortex-A17 Quad Core CPU, Mali-T764 GPU core
DDR3	DDR3 1G(Default, 2G/4G optional)
Flash	8GB(Default)/16G/32G optional
Video Out	1 x Dual 8bit LVDS(up to 2K supported)
	1 x MIPI DSI
	1 x HDMI OUT
	1 x EDP
Video In	1 x MIPI CSI
	1 x 8bit Parallel CIF Camera in
Audio	1 x Mic in
	1 x Speaker Lout，1 x Speaker Rout
	1 x Headphone L&R Out
SDIO	1 x SDIO
OTG	1 x USB OTG
USB2.0	2 x USB2.0 Host
LAN	1 x Gigabit Ethernet
DC	1 x 12V DC In
GPS	support GPS
POE	1 x POE
TP	1 x IIC Interface Touch Panel
LED Flash	2 x LED Flash
SPI	1 x SPI
GPIO	4 x GPIO
RS232	2 x RS232
IR	1 x IR
IIC	2 x IIC
OS	Android 7.1, Linux Debian 9
Size	108 x 93 x 1.2mm

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Beyond the Embedded Deployment