POLYHEX

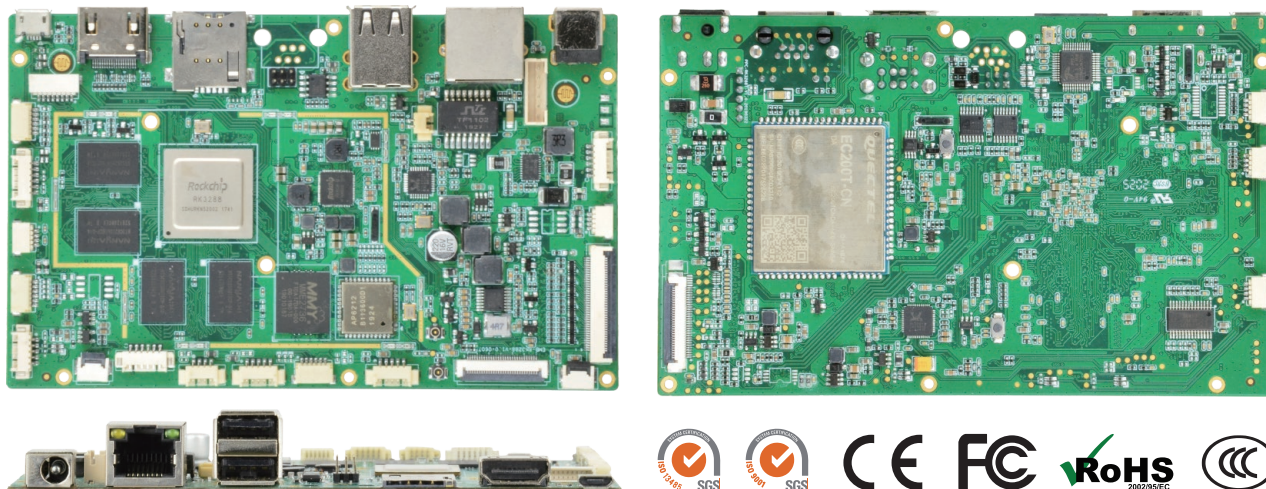# Wechat & NFC Payment Terminal Embedded Motherboard based on Rockchip RK3288 CPU
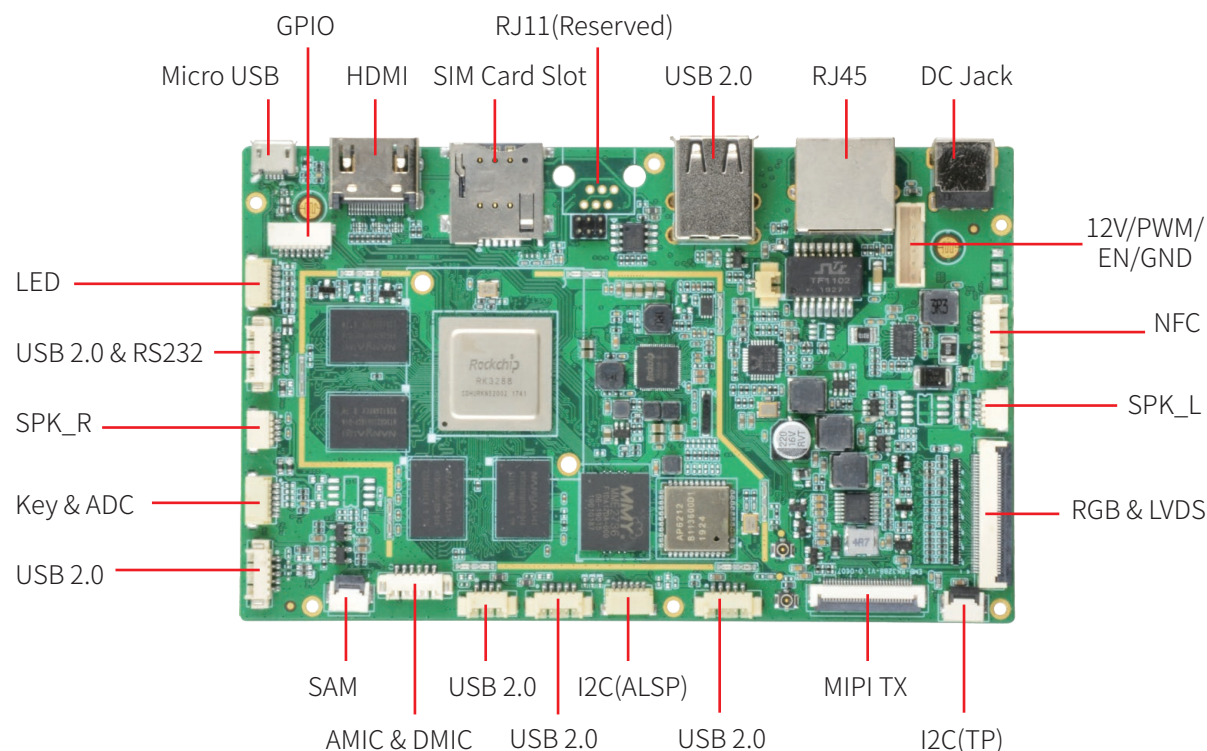
Specification:

System	
Main Control Chip	Rockchip RK3288
Processor	4 x Cortex-A17, up to1.8GHz
Memory	2GB DDR3
Storage	16GB eMMC
System	Android 7.1.2
Communication	
LAN	1 x 10/100Mbps RJ45 Slot
4G Module	Built-in onboard 4G module
WIFI & BT	Built-in onboard WIFI & BT module
I/O Interfaces	
USB 2.0	2 x USB 2.0 Type-A Slot
POS System Interface	1 x RS232 RJ11 Slot
SIM Card Slot	1 x Micro SIM Card Slot
HDMI Output	1 x HDMI OUT Type-A Slot
USB OTG	1 x USB OTG MicroUSB Slot
Internal Interfaces	
GPIO	4 x GPIO Input or Output, voltage threshold 3.3V
	2 x Onboard GPIO
LED Output Control	3 x LED Output Control, voltage threshold 3.3V
SPK	1 x L&R SPK, supports 8Ω 2W
Buttons	1 x Button Interface, Sound Volume+/Sound Volume-/Power Switch/Reset + Recovery Button
USB 2.0	4 x USB 2.0 Host, supports USB Interface AI Camera/Temperature/HID Peripherals
PSAM	1 x PSAM
Mic	1 x Mic Input, supports 1-lane Mic + 1-lane Digital Mic
Light Sensor	1 x Ambient Light Sensor Interface
MIPI DSI	1 x 4-Lane MIPI DSI Display Interface

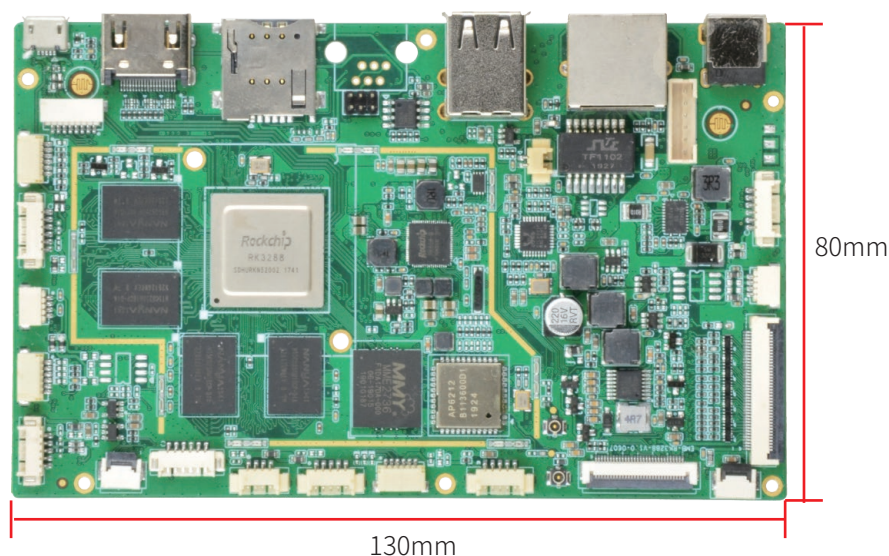| TP	1 x Touch Panel I2C Interface
RGB	1 x 24bit RGB Interface, LVDS multiplexing this interface
NFC	1 x NFC Card Reader UART TTL3.3V Interface
Display	1 x eDP Display Output, 2-Lane(default), up to 4-Lane
	Support dual independent display
Others	1 x QR Code/Scanner Interface, 1 x RS232 + 1 x USB 2.0 Host
Power Supply	
DC Jack	1 x DC12V-2A, DC-005/5.5 x 2.1mm DC jack

Interface Diagram:

Dimension:

80mm

130mm

ABOUT POLYHEX

As a board level and system level designer and manufacturer, Polyhex, with 9-year experience, always delivers best-in-class embedded computing solutions based on both ARM and X86 architecture, including hardware customization and software debugging etc. Partnered with silicon vendors like Intel, NXP, ST, Rockchip, Allwinner and so on, we have earned trust from clients worldwide in over 30 countries. Polyhex is also certified with ISO9001 and ISO13485 for the self-owned manufacture facility.

POLYHEX
Beyond the Embedded Deployment