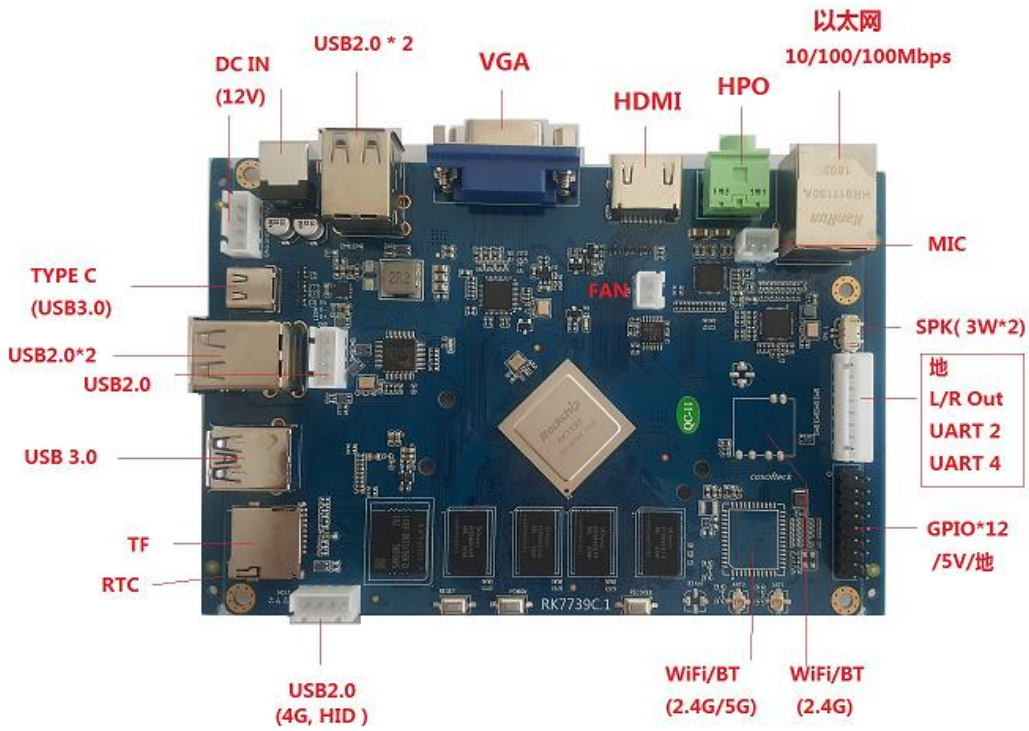


# RK7739C-Technical Specification

## - V1.1

### Motherboard



COSU

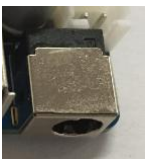
# 1.Parameter List

Motherboard Solutions	
Model Description	RK7739C Standard type(DDR2G+EMMC8G) RK7739C-W Standard type and WIFI RK7739C-WB Standard type and WIFI、 Bluetooth
CPU	Rockchip RK3399 6-core 64-bit processor
GPU	ARM Mali-T860 MP4 Quad-core GPU
Memory	2GB or 4GB DDR3; Standard 2GB
Local Storage	EMMC Flash Standard 8GB
Supported Operating Systems	Android7.1 (or Ubuntu16 os)
Multimedia	Support 4K VP9 and 4K 10bits H265/H264 video decoding up to 60fps 1080P multi-format video decoding (WMV, MPEG-1/2/4, VP8) 1080P video encoding, support H.264, VP8 format
Extended memory	TF Card
Ethernet	Wired 10/100/1000M
WIFI	2.4GHz/5GHz dual-band WiFi, supports 802.11a/b/g/n/ac protocol, 2x2 MIMO technology
Bluetooth	Bluetooth 4.0/4.1
USB	USB2.0 HOSTx6, USB3.0 Type C x1, USB 3.0 x1
MIC	x1
Headphones	x1
LINE OUT	x1
SPEAKER	2.5W x2
VGA	x1
HDMI	x1
UART	UART TTL x 2(Option to UART TTL x 1)
RTC	Real time clock
4G	x1(optional)
GPS	4G module built-in (optional)
GPIO/IIC	Reserved ( GPIO 12 x 12 )
Power	12V/2A (Wide voltage: 8-22V)

Operating temperature	-30-75°C
Product Size	134x96mm

## 2. Power

Two power connectors for accessing 12V DC power.



Model: DC-044A DC



4PIN 2.54mm pitch row holder

Pin	Description	Pin	Description
1	DCIN 12V	2	DCIN 12V
3	GND	4	GND

## 3.USB Host

Six USB 2.0 HOST, four of which are connected via dual horizontal USB sockets and the other two via 4 PIN 2.54mm pitch white sockets.



Pin	Description	Pin	Description
1	VCC_5V	2	D-
3	D+	4	地

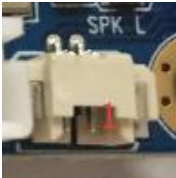
## 4.MIC

Pin	Description
1	MIC+
2	MIC-



## 5.SPK

Front side is left channel, back side is right channel.



Front side

Pin	Description
1	SPK_L+
2	SPK_L-



Back side

Pin	Description
1	SPK_R+
2	SPK_R-

## 6.FAN

Pin	Description
1	VCC_12V
2	GND



## 7.RTC

Pin	Description
1	RTC-
2	RTC+



## 8.Extended Interface

Two expansion interfaces are provided.

- Connected via 8PIN 2.54mm pitch white socket. Mainly used as audio output, UART2 and UART4.



Pin	Description	Pin	Description
1	UART4_RX(ttyS4)	2	UART4_TX(ttyS4)
3	UART2_RX(ttyS2)	4	UART2_TX(ttyS2)
5	GND	6	LINE_OUT_L
7	LINE_OUT_R	8	GND

## 9.GPIO

18pins 2.54mm pitch double row



Pin	Description	Pin	Description
1	VCC_5V	2	VCC_5V
3	GPIO2_A0	4	GPIO2_A7

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5	GPIO2_A1	6	GPIO2_B0
7	GPIO2_A2	8	GPIO2_B1
9	GPIO2_A3	10	GPIO2_B2
11	GPIO2_A4	12	GPIO2_B4
13	GPIO2_A5	14	UART_RX(ttyUSB0,NC)
15	GPIO2_A6	16	UART_TX(ttyUSB0,NC)
17	GND	18	GND

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# 10.Dimension drawing

