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- MODEL : ROiK Octa

- DATE : 2017.05.31

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1. Main Spec.

OS : Android 5.1.1(Lollipop)

CPU : NXP5430Q - Cortex-A53 Octa Core @1.6Ghz Mali-400 MP4 GPU

Memory : 2GB DDR3 @800Mhz

NAND: 16GB (eMMC)

SD Card : 8GB (SDHC Class10, Max 32GB support, FAT32)

USB : USB2.0 High Speed Port x 2

Telecommunication : 802.11 b/g/n WiFi, Bluetooth 4.0

GPS : Ublox7

Touch : Resistor and Capacitive touch support both

RGB : 800x480 / 480x234

LVDS OUT : Digital 800x480 LVDS OUT

Speaker : 2W

FM Transmitter : 88.0Mhz~108.0Mhz

I/O : AV IN, Stereo Audio Out

Voltage: DC 12V ~ 24V

Temperature : Storage -20 C ~ +80 C/ Operating -15 C ~ +70 C

Size: 122mm(W) x 88mm(H) x 23mm(D)

Weight : 184g

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2. Dimension



3. External Appearance - 1



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4. External Appearance - 2



5. Power Connector Pin Assignment



6. RGB OUT Connector Pin Assignment



7. AV IN/OUT Connector Pin Assignment







1	Speaker +	2	Speaker -
3	AUX OUT R	4	GND
5	AUX OUT L	6	GND
7	Capacitive Touch SCL	8	GND
9	Capacitive Touch SDA	10	Capacitive Touch 3.3V
11	Capacitive Touch Interrupt	12	Capacitive Touch Reset
13	Touch X-	14	Touch Y-
15	Touch X+	16	Touch Y+
17	UART TX	18	MIC +
19	UART RX	20	MIC -
21	AVIN	22	GND
23	NC	24	FMT ANTENA

AUX OUT L AUX OUT R SPEAKER

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8. Product Composition



GPS Box



Power Cable AV Cable



RGB OUT Cable





Speaker

MIC



Capacitive Touch Cable



Resistor Touch Cable

SD Card Reader 1EA



SD Card



External GPS Antenna



WiFi/BT

Antenna



LVDS OUT HDMI Cable

9. DIP S/W Setting



* USE DIP S/W4 when DIP S/W 1 is ON

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10. DIP S/W Setting 2



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11. Install Manual - Capacitive touch



11-1. Capacitive Touch Setting (GOODIX GT9xx)



3.Select adjust cap setting file

4. Waiting for reset device

	φ		0	9:10	ě	9:01
	📴 Device Sett	Select Setting File			Device Settings	
	Digital Out S				Digital Out Settings	
	FMT Setting	touch-c_audi_7inch.cap			FMT Settings	
\bigcirc	External Spe	touch-c_default.cap		✓ 1	External Spe	
	Softkey Posi	touch a jurt can		~	Softkey Posi	~
Ĵ	Startup App	touch-c_lwh.cap)FF 🖌	Startup App	OFF
	Capacitive T	touch-c_iw2.cap			Capacitive Tr	
	Set User Boo	touch-c_sclass.cap		_	Set User Boot Logo	
〈 》	Initialization	edeard can			Initialization	
	Reset device	Cancel	Select	2	Reset device	

* DIP S/W 1 = ON, DIP S/W 4 = OFF : Capacitive Touch Goodix GT9xx Model

DIP S/W 1 = ON, DIP S/W 4 = ON : Only Audi Q7 Capacitive Touch ILITEK ILI2139DS Model support@carsolutions.com.ua www.carsolutions.com.ua

12. Install Manual - Resistive touch



13. Install Manual – UART touch



14. Calibration – Resistive touch



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15. Device Settings

Analog RGB Setting (RGB Out Mode): RGB 800x480 or 480x234 screen change size and position Digital Out Setting (Digital Out Mode): LVDS screen change h/v position FMT Setting : Setting FM frequency External Speaker : Turn on/off external speaker Softkey Position : Change HOME Menu button position to Right or Left **Softkey Auto Hiding** : Change HOME Menu button automatic hiding funtion Startup App : Select Startup APP Touch Calibration : Set resistive touch calibration. (No need to set Capacitive touch panel) Set User Boot Logo : 800x480 Pixel Size **Initialization :** Initialize Device Settings **Reset device :** Reset Device



φ.	1:59
🔄 Device Settings	
Digital Out Settings	
FMT Settings	
External Speaker	
Softkey Position(Left/Right)	
Softkey Auto Hiding	5sec
Startup App	OFF
Touch Calibration	
Initialization	
Reset device	

φ.	2:03
E Device Settings	
Analog RGB Settings	
FMT Settings	
External Speaker	
Softkey Position(Left/Right)	
Softkey Auto Hiding	5sec
Startup App	OFF
Touch Calibration	ß
Initialization	
Reset device	

16. FMT Settings





FM Transmitter On/Off or select FM frequency. Button + , - change FM frequency by 0.05Mhz FM.

17. User Logo Update



Set User Boot Logo Activate

- 1. On SD-Card Root folder exist "userlogo" file. (File type = BMP image file)
- 2. Run Device Setting App
- 3. Click 'Set Use Boot Logo' and reboot ROIK

If bmp file path is not on "/sdcard/userlogo", and file name is not same,

- 'Set User Boot Logo' not activate
- * userlogo = 800x480 pixel , 24bit bmp file

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18. User Logo Update – Logo File Format



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19. Firmware Upgrade



Copy 'system_roik4' folder to SD Card root and insert to GPS. Push hold this button and turn on (re-connect power cable), it will start upgrade *'/sdcard/system_roik4' Folder have 'partmap.txt / boot.img / root.img' files



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