



SPECIFICATION

MODULE NO.: WUAAAA120V050BTIGX00

Embedded Motherboard Specification

Form Factor	Description	
Processor System		NXP i.MX6 Family, Base on ARM Cortex-A9 processor
	Cpu	iMX6 Q - Quad core 1.0GHz (Quad core up to 1GHz per core) iMX6 DL - Dual core 1.0GHz (Dual core up to 1GHz per core) iMX6 S – Solo core 1.0GHz (Single core up to 1GHz per core)
Memory	Memory	Onboard DDR3L 1GB x64 bit (2GB Max)
	Mass storage	On-board eMMC drive, up to 8GB(128GB Max)
Video	LVDS	2 x 24 bit LVDS (1024*600、1024*768 or 1280*800; 1 reserved)
	RGB	24-bits TTL with DE+ H/V sync(800*480)
Graphic	Graphic engine	Dedicated 2D Hardware accelerator Dedicated 3D Hardware accelerator(Supports OpenGL ES2.0 3D)
	H/W Video codec	Support MPEG 1/2/4, H.264 Hardware Decoder.
	Display	Support 2 independent display with iMX6DL and i.MX6S Support 3 independent display with iMX6D and i.MX6Q
Network	Ethernet	1 GbE + IEEE1588 with RJ45 slot
USB	USB	2 Standard USB 2.0 type A ; 1 x USB 2.0 OTG 2 x USB 2.0 with pin header
Audio	Audio	Wolfson Audio codec Mic in, Line out internal pin header
I/O	Serial port	1 x RS232 (DB9 ; console,) ; 1 x RS485/422/232 (ePHD Housing) ;
	SPI	2 (Host, reserved)
	IIC	2 (Client,1 for PCAP use)
	GPIO	16-pin 3.3V TTL Level GPIOs
Touch Panel	Resistive	4-wire Resistive type(onboard)
	Capacitive	CTP is driven IIC interface
Clock	RTC	RTC Circuitry for low power consumption option RTC Battery with lead cable and connector

Expansion	SD Socket	1 * μ SD Slot (support up to SDXC)
	WIFI/BT	BLE 4.0 (SDIO interface for option WIFI Module)
Power	Voltage	DC12V \pm 10%
	Consumption	2.5W
Environment	Temperature	-10°C ~ 60°C (Operating)
		-20°C ~ 70°C (Storage)
Dimension	114mm * 95mm*20mm	
Operating System	Android 4.2.2 (WUAAAA Series)	
Certification	CE/FCC Class B	

General Specifications

Item	Dimension	Unit
Size	5.0	inch
Dot Matrix	800 x 3(RGB) x 480	dots
Module dimension	120.7(W) x 75.8(H) x 4.4(D)	mm
Active area	108 (W) x 64.8(H)	mm
Dot pitch	0.045(W) x 0.135(H)	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	12 o'clock	
Gray Scale Inversion Direction	6 o'clock	
Aspect Ratio	16:9	
Backlight Type	LED, Normally White	
Touch Screen	Projected Capacitive Touch Screen (PCAP)	
Surface	Anti-Glare	

Characters of TFT Module

WUAAA120V+50B series / RGB interface

