



Winstar Display Co., LTD

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SPECIFICATION

MODULE NO.: WUAAAA120V050BTITX00

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	Onboard DDR3L 1GB x64 bit (2GB Max)
Memory	Mass storage	On-board eMMC drive, up to 8GB(128GB Max)
	Video	2 x 24 bit LVDS (1024*600、1024*768 or 1280*800; 1 reserved)
Graphic	LVDS	24-bits TTL with DE+ H/V sync(800*480)
	Graphic engine	Dedicated 2D Hardware accelerator Dedicated 3D Hardware accelerator(Supports OpenGL ES2.0 3D)
Network	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
	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	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
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	Resistive Touch Screen	
Surface	Anti-Glare	

Characters of TFT Module

WUAAA120V+50B series / RGB interface

