



Winstar Display Co., LTD

華凌光電股份有限公司

WEB: <http://www.winstar.com.tw> E-mail: sales@winstar.com.tw



SPECIFICATION

MODULE NO.: WUAAAA120V121ATITX00

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±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	12.1	Inch
Dot Matrix	1024 x RGB x 768 (TFT)	Dots
Module Dimension	260.5 x 204.0 x 8.4	mm
Active Area	246.0(H) x 184.5(V)	mm
Dot Pitch	0.240(H) x 0.240(V)	mm
LCD Type	TFT, Normally White, Transmissive	
View Direction	12 o'clock	
Gray Scale Inversion Direction	6 o'clock	
Aspect Ratio	4:3	
Backlight Type	LED, Normally White	
Touch Screen	Resistive Touch Screen	
Module Power Consumption	11.8W (Black pattern)	

Characters of TFT Module

WUAAAAA120V+ 121A series/LVDS interface

