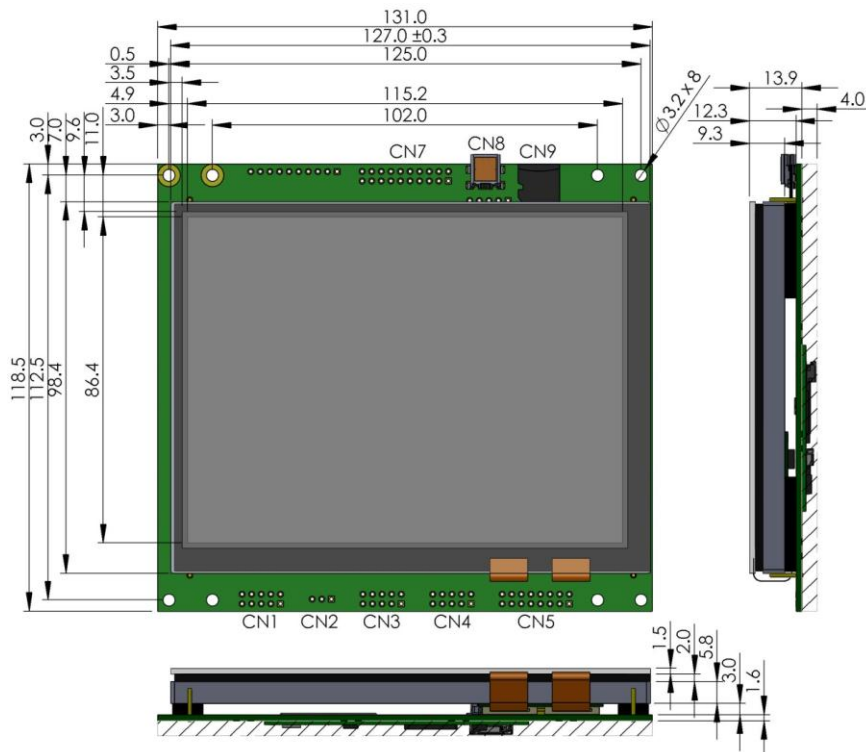


QUICK REFERENCE DATASHEET

Features

- * 5.7 inch TFT
- * 640x480 pixels
- * 262k colours
- * LED backlighting
- * MPCT Touch for 8mm Glass
- * 4.0V – 12.0V PSU Modes
- * Internal Battery Charging
- * 450MHz iMX28 ARM9 CPU
- * 512MB RAM max
- * 4GB eMMC NAND
- * 8KB EEPROM Memory
- * 4GB+ μ SDHC Slot
- * 2x I2C 3V3/5V Logic
- * 2x SPI Interface 3V3 Logic
- * RS232 & RS485. RS422 Option
- * 3x Async 3V3
- * 2x FlexCAN Interfaces
- * Up to 50 User Digital I/O
- * USB OTG Host/ Device
- * USB High-Speed Host
- * 10/100 Ethernet + Magnetics
- * Up to 8 ADCs (1x HSADC)
- * Up to 7 PWM Outputs
- * SAIF - Serial Audio Interface
- * SPDIF
- * Real Time Clock / Alarm
- * Linux / iDevOS / Windows CE



Optical Characteristics		Value					
Display Area (X x Y mm)		115.2 x 86.4 – 5.7inch diagonal					
Display Format (X x Y)		640 x 480 pixels					
Dot Size/Pitch (X x Y mm)		0.18 x 0.18					
RGB Colours		262,144					
Display Type		Transmissive					
Prime Viewing Angle		12 o'clock (colour inversion at 6 o'clock). Option to rotate module.					
Visual Parameters		Symbol	Min	Typ	Max	Unit	Condition
Contrast Ratio		CR	200	250	-	-	At optimized viewing angle
Colour Chromaticity	White	Wx	0.30	0.35	0.40	-	$\Theta=0^{\circ}$ $\Phi=0^{\circ}$
		Wy	0.33	0.38	0.43	-	$\Theta=0^{\circ}$ $\Phi=0^{\circ}$
Brightness		-	-	500	-	cd/m ²	Center of Display
LED Backlight Lifetime		-	30,000	-	-	Hours	50% of brightness @ 25°C
Electrical Parameters		Symbol	Min	Typ	Max	Unit	Condition
5V Input Power Supply	Supply Voltage	Vcc1	4.0	5.0	12.0	VDC	GND = 0V
	Supply Current	Icc1	450	480	550	mA	Vcc1=5V - All pixels ON
		Icc2	50	60	70	mA	Vcc1=5V – Reset LOW
3V3 Output Power Supply	Supply Voltage	Vcc2	3.2	3.3	3.4	VDC	GND = 0V
	Supply Current	Icc2	-	-	200	mA	VCC1=5V

Applicable Products

Part Number	Touch	Ethernet	RS232 / 485	5V I2C	SD Slot	eNAND	DDR2
TW640X480C-K618SR1NU*	YES	NO	YES	YES	4GB+ x1	4GB	128MB
TW640X480C-K619SE4R2NU	YES	YES	YES	YES	4GB+ x1	4GB	256MB
TW640X480C-K619SE4R4NU*	YES	YES	YES	YES	4GB+ x1	4GB	512MB
Suffix E	Product has EMI filter glass fitted between touch and TFT panels- e.g. UE						
Suffix F	Product has EMI foil fitted on the rear and sides of the module- e.g. UF						
Suffix H	Host USB connector fitted on rear of module- e.g. NUH						
Operating system Suffix	iDevOS -iDevOS; Linux OS -LNX; Windows CE -CE6						
*	Made to order						