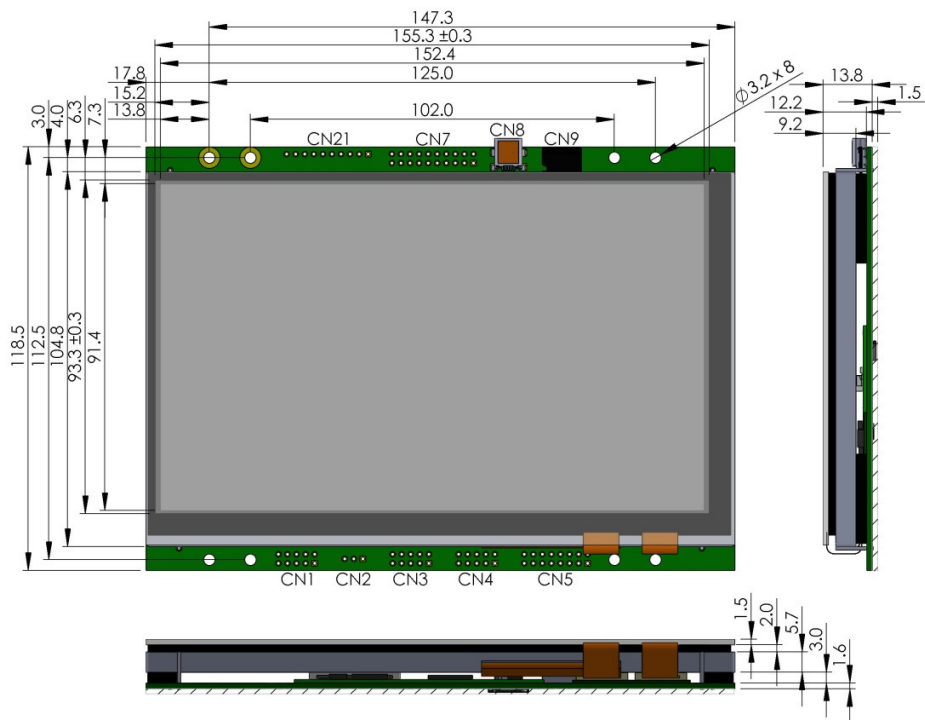


## QUICK REFERENCE DATASHEET

### Features

- \* 7.0 inch TFT
- \* 800x480 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+  $\mu$ 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
- \* MPCT Touch for 8mm Glass
- \* 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)		152.4 x 91.4 – 7.0 inch diagonal					
Display Format (X x Y)		800 x 480 pixels					
Dot Size/Pitch (X x Y mm)		0.19mm x 0.19mm					
RGB Colours		262,144					
Display Type		Transmissive					
Prime Viewing Angle		12 o'clock (colour inversion at 6 o'clock)					
Visual Parameters		Symbol	Min	Typ	Max	Unit	Condition
Contrast Ratio		CR	250	400	-	-	At optimized viewing angle
Colour Chromaticity	White	Wx	0.22	0.27	0.32	-	$\Theta=0^\circ \Phi=0^\circ$
		Wy	0.23	0.28	0.33	-	$\Theta=0^\circ \Phi=0^\circ$
Brightness		-	350	-	500	cd/m <sup>2</sup>	Center of Display
LED Backlight Lifetime		-	50,000	-	-	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	580	620	650	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	NAND	DDR2
TW800X480C-K618SR1MU*	YES	NO	YES	YES	4GB+ x1	4GB	128MB
TW800X480C-K619SE4R2MU	YES	YES	YES	YES	4GB+ x1	4GB	256MB
TW800X480C-K619SE4R4MU*	YES	YES	YES	YES	4GB+ x1	4GB	512MB
<b>Suffix E</b>	Product has EMI filter glass fitted between touch and TFT panels- e.g. UE						
<b>Suffix F</b>	Product has EMI foil fitted on the rear and sides of the module- e.g. UF						
<b>Suffix H</b>	Host USB connector fitted on rear of module- e.g. NUH						
<b>Operating system Suffix</b>	iDevOS -iDevOS; Linux OS -LNX; Windows CE -CE6						
*	Made to order						