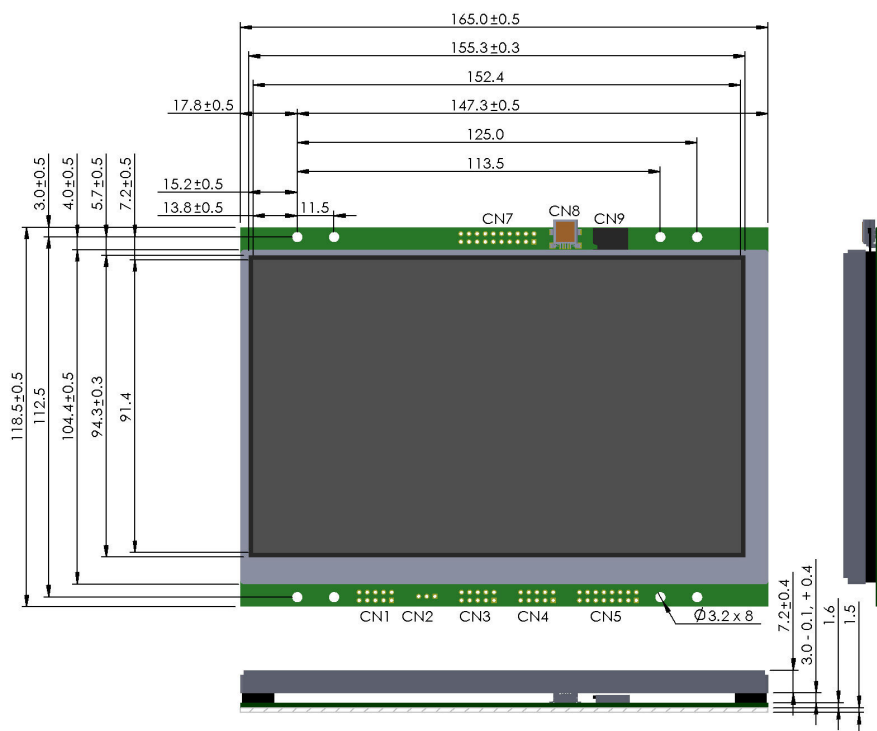


QUICK REFERENCE DATASHEET

Features

- * 7.0 inch TFT
- * 800x480 pixels
- * 262K colours
- * LED backlighting
- * Single 5VDC Supply
- * ARM9 CPU
- * 64M byte RAM
- * 128M byte NAND
- * 8K EEPROM
- * 3V3/5V Logic
- * 3 Async UART, I2C, SPI
- * RS232, RS485 / RS422
- * Up to 31 user I/O
- * USB 2.0 Device
- * 6 ADCs
- * Up to 3 PWMs
- * AC97 Audio Bus
- * Real Time Clock / Alarm
- * itronOS+ / LinuxOS



Optical Characteristics		Value					
Display Area (X x Y mm)		152mmx91mm – 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		6 o'clock (colour inversion at 12 o'clock)					
Visual Parameters		Symbol	Min	Typ	Max	Unit	Condition
Contrast Ratio		CR	250	350	-	-	At optimized viewing angle
Color Chromaticity	White	Wx	0.26	0.31	0.36	-	$\Theta=0^\circ \Phi=0^\circ$
		Wy	0.28	0.33	0.38	-	$\Theta=0^\circ \Phi=0^\circ$
Brightness		-	280	300	-	cd/m ²	Center of Display
LED Backlight Lifetime		-	20,000	-	-	Hours	50% of brightness @ 25°C
Electrical Parameters		Symbol	Min	Typ	Max	Unit	Condition
5V Input Power Supply	Supply Voltage	VCC1	4.5	5.0	5.5	VDC	GND = 0V
	Supply Current	ICC1	580	620	650	mA	Vcc1=5V - All pixels ON
		lcc2	250	270	320	mA	Vcc1=5V - LED backlight off
		lcc3	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	RS232	RS485	RS422	AS1, I2C, SPI	CN8	OpSystem
TU800X480C-K611A1N	None	Yes	Yes	Yes	3V3 logic	No	itronOS+
TU800X480C-K611A1NU	None	Yes	Yes	Yes	3V3 logic	Yes	itronOS+
TU800X480C-K611A1NUS	None	Yes	Yes	Yes	5V/3V3 logic	Yes	itronOS+
TU800X480C-K612A1N	None	Yes	No	No	3V3 logic	No	itronOS+
TU800X480C-K612A1NU	None	Yes	No	No	3V3 logic	Yes	itronOS+
TU800X480C-K612A1NUS	None	Yes	No	No	5V/3V3 logic	Yes	itronOS+
TU800X480C-K618A1NU	None	Yes	Yes	No	3V3 logic	Yes	itronOS+
TU800X480C-K611A1NUL	None	Yes	Yes	Yes	3V3 logic	Yes	Linux
TU800X480C-K612A1NUL	None	Yes	No	No	3V3 logic	Yes	Linux
Suffix E	Product has EMI filter glass fitted between touch and TFT panels- e.g. UES						
Suffix F	Product has EMI foil fitted on the rear and sides of the module- e.g. UFL						