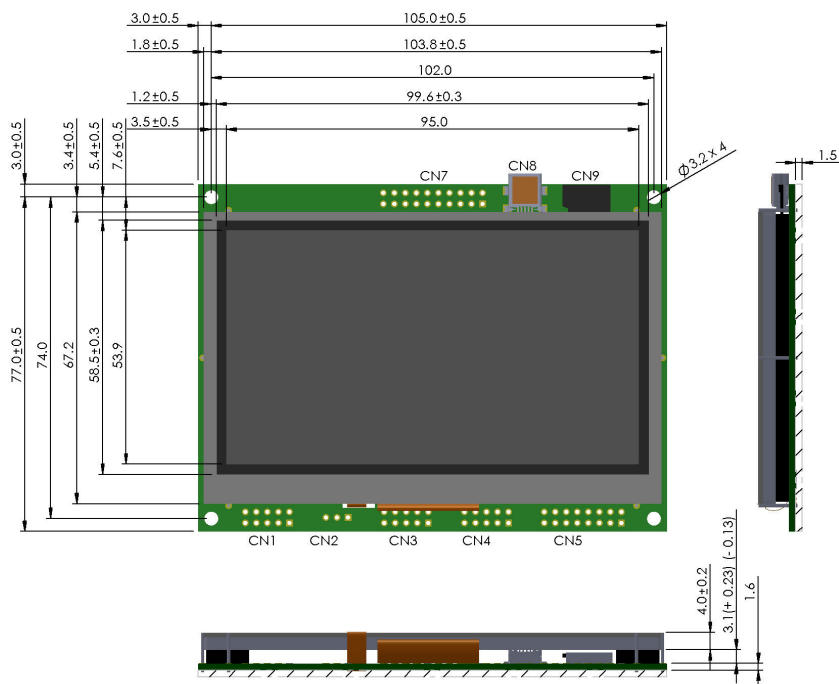


## QUICK REFERENCE DATASHEET

### Features

- \* 4.3 inch TFT
- \* 480x272 pixels
- \* 16 million colours
- \* LED backlighting
- \* 4 Wire Resistive Touch
- \* 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
- \* 2 ADCs
- \* Up to 4 PWMs
- \* AC97 Audio Bus
- \* Real Time Clock / Alarm
- \* itronOS+ / LinuxOS



Optical Characteristics		Value					
Display Area (X x Y mm)		95x53 – 4.3inch diagonal					
Display Format (X x Y)		480 x 272 pixels					
Dot Size/Pitch (X x Y mm)		0.198 x 0.198					
RGB Colours		16,777,216					
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	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 <sup>2</sup>	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	340	360	390	mA	Vcc1=5V - All pixels ON
		lcc2	120	140	170	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
TU480X272C-K611A1R	Resistive	Yes	Yes	Yes	3V3 logic	No	itronOS+
TU480X272C-K611A1RU	Resistive	Yes	Yes	Yes	3V3 logic	Yes	itronOS+
TU480X272C-K611A1RUS	Resistive	Yes	Yes	Yes	5V/3V3 logic	Yes	itronOS+
TU480X272C-K612A1R	Resistive	Yes	No	No	3V3 logic	No	itronOS+
TU480X272C-K612A1RU	Resistive	Yes	No	No	3V3 logic	Yes	itronOS+
TU480X272C-K612A1RUS	Resistive	Yes	No	No	5V/3V3 logic	Yes	itronOS+
TU480X272C-K618A1RU	Resistive	Yes	Yes	No	3V3 logic	Yes	itronOS+
TU480X272C-K611A1RUL	Resistive	Yes	Yes	Yes	3V3 logic	Yes	Linux
TU480X272C-K612A1RUL	Resistive	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						