








UART **TFT** LCD Interface

UART stands for **U**niversal **A**synchronous **R**eceiver/**T**ransmitter; it is a block of circuitry responsible for implementing serial communication. UART TFT LCD is a smart and easy-to-use TFT LCD, which can quickly create the required images and actions. Bolymin provides editor software and widgets, which can be pre-edited on the PC and downloaded to the UART TFT LCD for use. What You See Is What You Get. It allows users to control high performance TFT displays from low-end systems.

inch	Display Format	Model No.	Outline Dimension (mm)	Active Area (mm)	Typ. Brightness (cd/m ²)	View Angle	Interface	IC Part No.	Touch Panel	Audio/ Video	Download Flyer
2,8	320x240	BTU028-3224TL100	96.6 x 55.94	57.6 x 43.2	200	6H	UART/RS232	ARM M4	RTP	WAV	
3,2	320x240	BTU032-3224TL100	96.6 x 55.94	64.8 x 48.6	290	6H	UART/RS232	ARM M4	RTP	WAV	
4,3	480x272	BTU043-4827IL000	120 x 74	95.04 x 53.86	340	ALL	UART/RS232	ARM 9	RTP/CTP	WAV/MP3/MP4	
5,0	800x480	BTU050-8048IL000	136.9 x 84	108 x 64.8	550	ALL	UART/RS232	ARM 9	RTP/CTP	WAV/MP3/MP4	
7,0	800x480	BTU070-8048TL000	181 x 108	154.08 x 85.92	700	12H	UART/RS232	ARM 9	RTP/CTP	WAV/MP3/MP4	
10,1	1024x600	BTU101-1060TL000	235 x 143	222.72 x 125.28	360	6H	UART/RS232	ARM 9	RTP/CTP	WAV/MP3/MP4	coming soon



BTU028-3224TL100RTN

Feature

1. 2.8" TFT LCD TN 320*240/240*320
2. UI Editor
3. Audio: WAV
4. Built-in RTC
5. RTP
6. Speaker(Optional)
7. UART/RS232, 2400~115200bps



Mechanical Data

Item	Standard Value	Unit
Module Dimension	96.6 x 55.94 x 11.81	mm
View Area	58.1 x 43.7	mm
Resolution	320 x 240 /240 x 320 TN	
View Angle	6H	

Pin Assignment

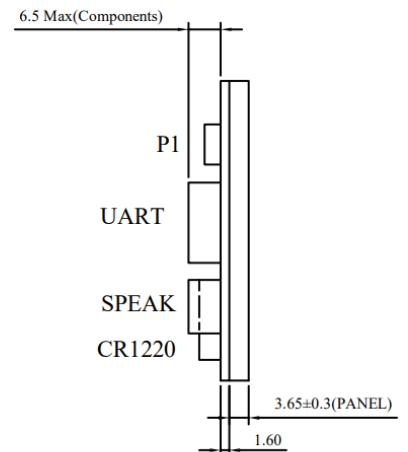
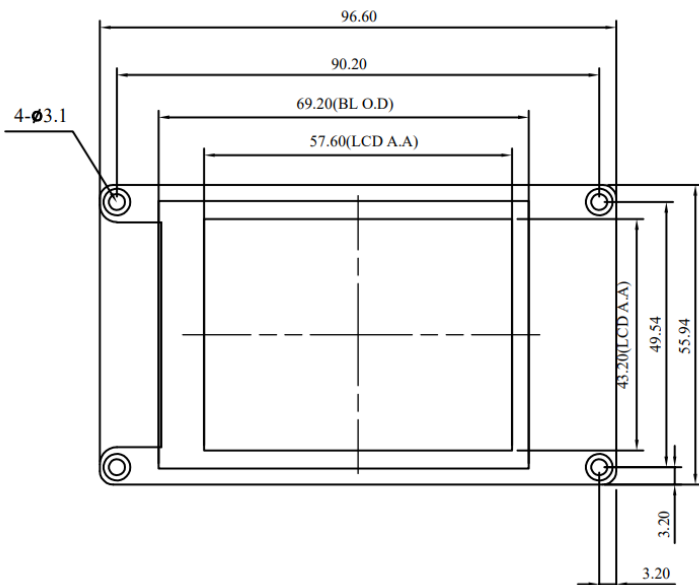
UART	
PIN NO.	SYMBOL
1	VBUS
2	RX
3	TX
4	GND

SPEAK	
PIN NO.	SYMBOL
1	SPK+
2	SPK-

Electronic Characteristics

	Test Conditions	Min	Typical	Max	Unit
Operating Voltage (VBUS)		4.65	5	5.5	V
Operation Current	VCC=+5V · Brightness 100%		140		mA
	SLEEP Mode		30		mA

Dimension





BTU032-3224TL100RTN

Feature

1. 3.2" TFT LCD TN 320*240/240*320
2. UI Editor
3. Audio: WAV
4. Built-in RTC
5. RTP
6. Speaker(Optional)
7. UART/RS232, 2400~115200bps

Mechanical Data

Item	Standard Value	Unit
Module Dimension	96.6 x 55.94 x 11.65	mm
View Area	65.8 x 49.6	mm
Resolution	320 x 240 /240 x 320 TN	
View Angle	6H	

Pin Assignment

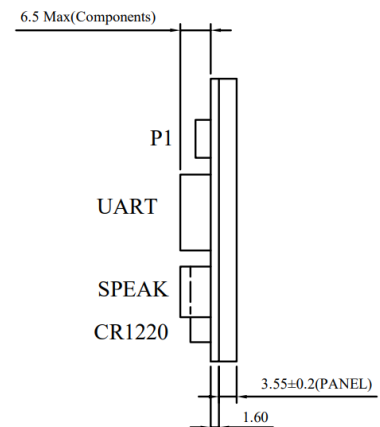
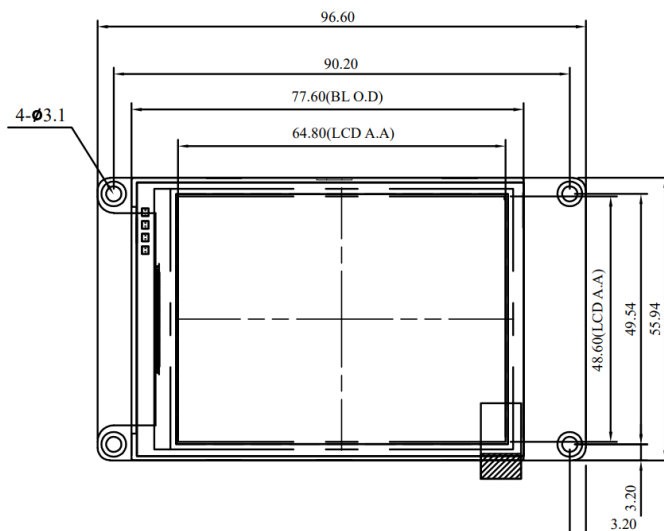
UART	
PIN NO.	SYMBOL
1	VBUS
2	RX
3	TX
4	GND

SPEAK	
PIN NO.	SYMBOL
1	SPK+
2	SPK-

Electronic Characteristics

	Test Conditions	Min	Typical	Max	Unit
Operating Voltage (VBUS)		4.65	5	5.5	V
Operation Current	VCC=+5V · Brightness 100%		170		mA
	SLEEP Mode		30		mA

Dimension





BTU043-4827IL000CTN

Feature

1. 4.3" TFT LCD IPS 480*272
2. UI Editor
3. Mp3/Mp4
4. Built-in SD card,RTC
5. CTP, RTP(Option)
6. Speaker(Option)
7. UART/RS232, 2400~115200bps

Mechanical Data

Item	Standard Value	Unit
Module Dimension	120.0 x 74.0 x 12.57	mm
View Area	96.04 x 54.86	mm
Resolution	480 x 272	IPS
View Angle	All	



Pin Assignment

UART

PIN NO.	SYMBOL
1	VBUS
2	RX
3	TX
4	GND

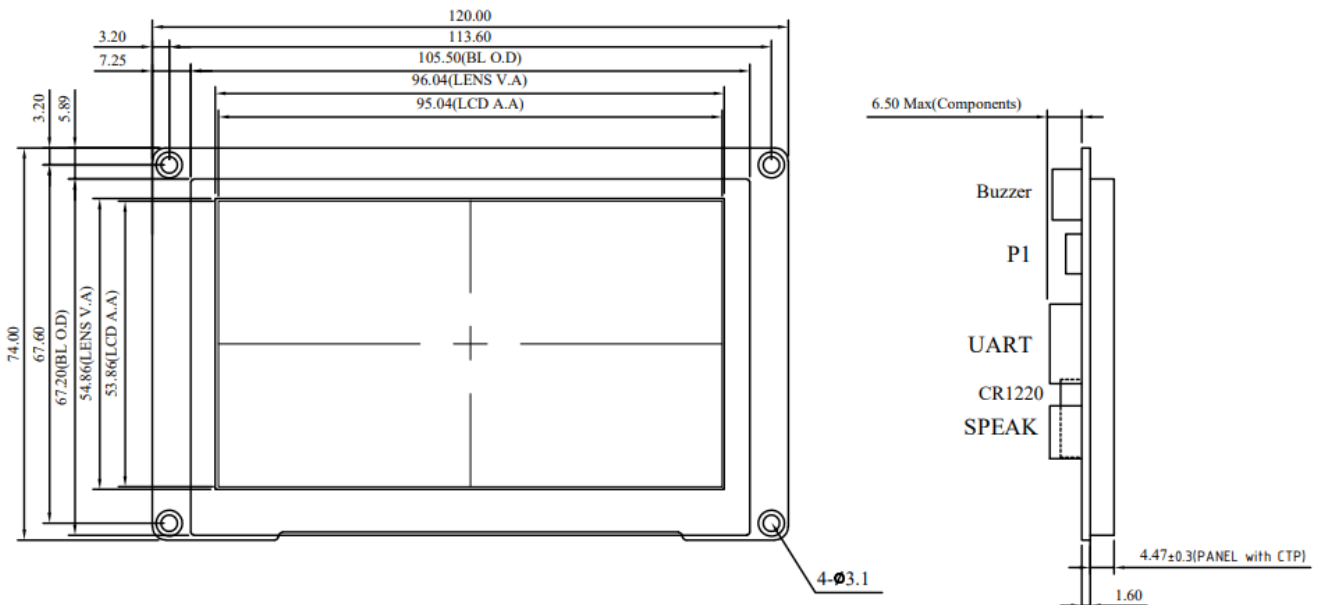
SPEAK

PIN NO.	SYMBOL
1	SPK+
2	SPK-

Electronic Characteristics

	Test Conditions	Min	Typical	Max	Unit
Operating Voltage (VBUS)		4.65	5	5.5	V
Operation Current	VCC=+5V, Brightness 100%		300		mA
	SLEEP Mode		100		mA

Dimension





BTU050-8048IL000CTN

Feature

1. 5.0" TFT LCD IPS 800*480
2. UI Editor
3. Mp3/Mp4
4. Built-in SD card,RTC
5. CTP, RTP(Option)
6. Speaker(Option)
7. UART/RS232, 2400~115200bps

Mechanical Data

Item	Standard Value	Unit
Module Dimension	136.9 x 84.0 x 12.2	mm
View Area	109 x 65.8	mm
Resolution	800 x 480 IPS	
View Angle	All	



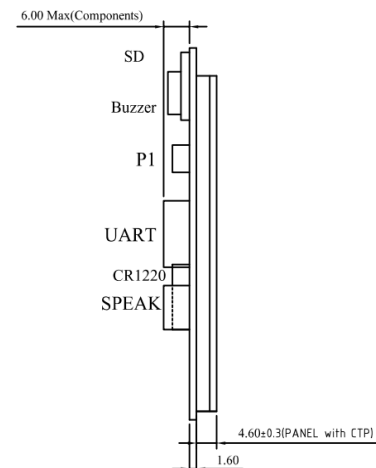
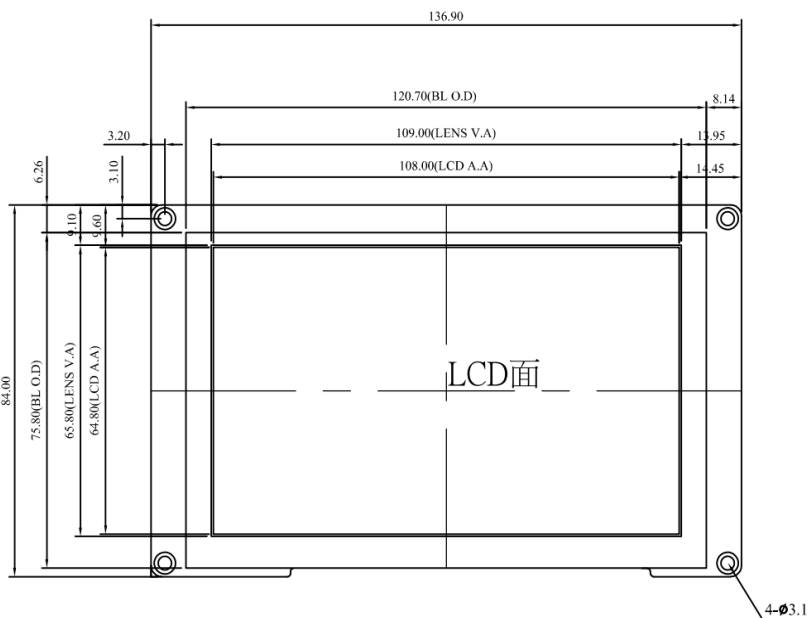
Pin Assignment

UART		SPEAK	
PIN NO.	SYMBOL	PIN NO.	SYMBOL
1	VBUS	1	SPK+
2	RX	2	SPK-
3	TX		
4	GND		

Electronic Characteristics

	Test Conditions	Min	Typical	Max	Unit
Operating Voltage (VBUS)		4.65	5	5.5	V
Operation Current	VCC=+5V · Brightness 100%		350		mA
	SLEEP Mode		110		mA

Dimension





BTU070-8048TL000CTN

Feature

1. 7.0" TFT LCD TN 800*480
2. UI Editor
3. Mp3/Mp4
4. Built-in SD card,RTC
5. CTP, RTP(Optional)
6. Speaker(Optional)
7. UART/RS232, 2400~115200bps



Mechanical Data

Item	Standard Value	Unit
Module Dimension	181 x 108 x 13.6	mm
View Area	155.08 x 86.92	mm
Resolution	800 x 480 TN	
View Angle	12H	

Pin Assignment

UART	
PIN NO.	SYMBOL
1	VBUS
2	RX
3	TX
4	GND

SPEAK	
PIN NO.	SYMBOL
1	SPK+
2	SPK-

Electronic Characteristics

	Test Conditions	Min	Typical	Max	Unit
Operating Voltage (VBUS)		4.65	5	5.5	V
Operation Current	VCC=+5V · Brightness 100%		500		mA
	SLEEP Mode		170		mA

Dimension

