

# ZETTLER DISPLAYS

## SPECIFICATIONS FOR LIQUID CRYSTAL DISPLAY

CUSTOMER APPROVAL			
※ PART NO. : <u>ATM0430U48-CT (ZETTLER DISPLAYS) SPEC V1.0</u>			
APPROVAL		COMPANY CHOP	
CUSTOMER COMMENTS			

ZETTLER DISPLAYS ENGINEERING APPROVAL		
DESIGNED BY	CHECKED BY	APPROVED BY
ZZK		

**REVISION RECORD**

REVISION	REVISION DATE	PAGE	CONTENTS
<b>VER1.0</b>	<b>2023-08-02</b>		<b>FIRST ISSUE</b>

## 1.0 Display specification

Item	Specification	Remark
1. LCD size	4.3 inch(Diagonal)	
2. Driver element	a-Si TFT active matrix	
3. Resolution	480x(RGB)x272	
4. Display mode	Normally Black, IPS, Transmissive	
5. Dot Pitch (W*H)	0.0660mm(W) x 0.1980mm(H)	
6. Pixel pitch(W*H)	0.1980mm(W) x 0.1980mm(H)	
7. Active Area(W*H)	95.04mm(W) x 53.856mm(H)	
8. Module size (W*H)	121.92mm(W) x 73.15mm(H) x 8.25mm(D)	Note 1
9. Surface treatment	Clear	
10. Color arrangement	RGB-stripe	
11. Color	65K(65536) colors	16BIT R5G6B5
12. Viewing angle (L/R/T/B)	80/80/80/80	
13. Interface	UART	
14. LCD controller	Integrated in the system	
15. LCM brightness	500 cd/m2 Typ.	64 level adjustable
16. Backlight driving condition	40mA @ 15.5V	
17. Touch panel	Capacitive	
18. Touch controller	Integrated in the system	
19. Operation temperature	-20~60 °C	
20. Weight	T.B.D.	
21. RoHS	RoHS compliant	

Note 1: Refer to mechanical drawing

## 2.0 Electrical characteristics

*Parameter	Min.	Typ.	Max	Unit
Input voltage	7.0	12.0	15	V
Working current	-	0.24	-	A
Recommended power	12V/1A adaptor			

*Parameter	Min.	Typ.	Max	Unit
Input voltage	4.8	5.0	5.2	V
Working current	-	0.6	-	A
Recommended power	5V/1A adaptor			

\*Refer to P/N selection

### 3.0 Working environment

Parameter	Test condition	Min	Typ	Max	Unit
Operating temperature	VDD / 60%RH	-20	25	60	° C
Storage temperature	60%RH	-30	25	70	° C
Working humidity	25° C	10%	60%	90%	RH

### 4.0 Interface parameter

Item	Test condition	Min	Typ	Max	Unit
Baud rate	Default	-	115200	-	bps
	Customized	1200		921600	bps
UART output level	Output 1, I <sub>out</sub> = 1mA	3.0	3.2	-	V
	Output 0, I <sub>out</sub> = -1mA	-	0.1	0.2	V
UART input level	Input 1, I <sub>in</sub> = 1mA	2.0	3.3	5.0	V
	Input 0, I <sub>in</sub> = -1mA	-0.7	0.0	1.3	V
UART mode	8N1, 3.3V TTL/CMOS (Default), RS232 level optional				
User interface mode	8PIN 2.0mm with lock				
FLASH	128M BYTE NAND flash				
TF interface	For program update				

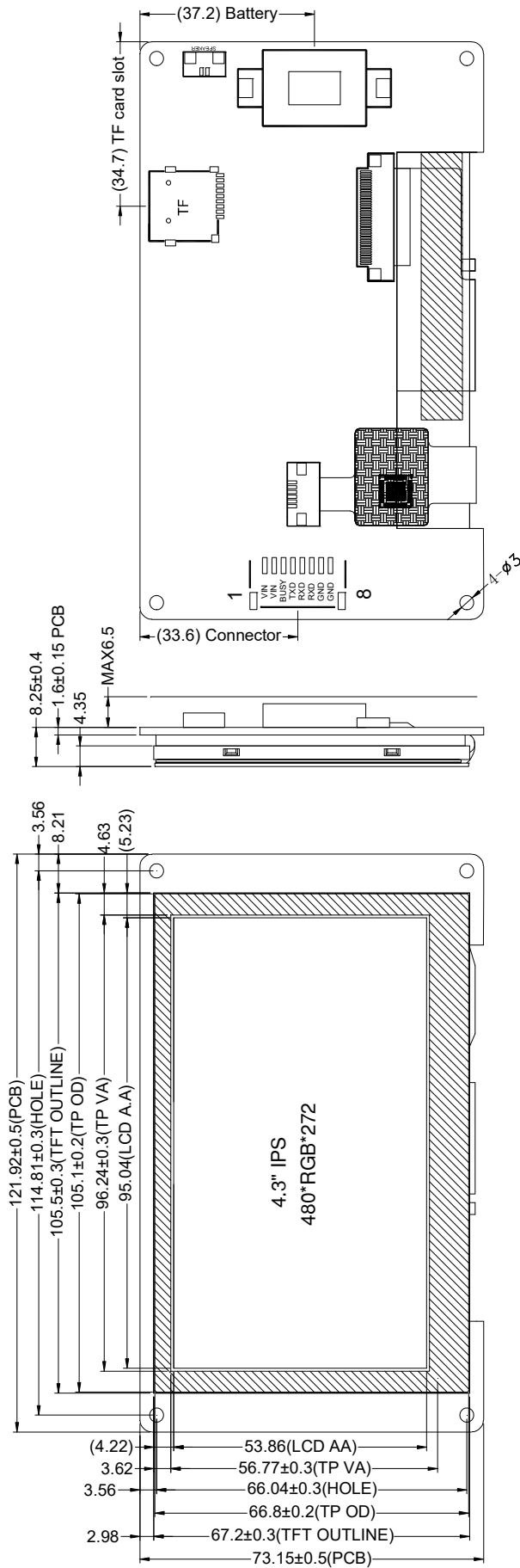
### 5.0 Pin definition

Pin No.	Symbol	Function
1	VIN	Power supply
2	VIN	Power supply
3	BUSY	Reserved
4	TXD	UART output
5	RXD	UART input
6	RXD	UART input
7	GND	Ground
8	GND	Ground

### 6.0 P/N selection

VDD voltage	TTL level	P/N
12V	TTL	ATM0430U48A
12V	RS232	ATM0430U48B
5V	TTL	ATM0430U48C
5V	RS232	ATM0430U48D

6.0 Mechanical drawing



1. General tolerance: ±0.5mm  
 2. (.) is for reference

6.1 connector

A=14.0; B=16.75; C=20.0; D=11.5; (mm)

