

# ZETTLER DISPLAYS

## SPECIFICATIONS FOR LIQUID CRYSTAL DISPLAY

CUSTOMER APPROVAL			
※ PART NO. : ATM0700U1 SERIES(ZETTLER DISPLAYS) VER1.0			
APPROVAL		COMPANY CHOP	
CUSTOMER COMMENTS			

ZETTLER DISPLAYS ENGINEERING APPROVAL		
DESIGNED BY	CHECKED BY	APPROVED BY
GU		

**REVISION RECORD**

REVISION	REVISION DATE	PAGE	CONTENTS
<b>VER1.0</b>	<b>2019-05-01</b>		<b>FIRST ISSUE</b>

## 1.0 Display specification

Color	65K(65536) colors	16BIT R5G6B5
Display size	154.08mm x 85.92mm	800x480
Resolution	800 x 480	
Backlight mode	LED white	
Luminance	350 cd/m2(ATM0700U1 / ATM0700U1A)	64 level adjustable
	280 cd/m2(ATM0700U1-T / ATM0700U1A-T)	

## 2.0 Electrical characteristics

Parameter		Min.	Typ.	Max.	Unit
Input voltage	ATM0700U1 ATM0700U1-T	4.5	5.0	5.5	V
	ATM0700U1A ATM0700U1A-T	7.0	12.0	15	V
Working current	ATM0700U1 ATM0700U1-T	-	0.57	-	A
	ATM0700U1A ATM0700U1A-T	-	0.24	-	A
Recommended power		5V/2A adaptor for 5V version and 12V/1A adaptor for 12V version			

## 3.0 Working environment

Parameter	Test condition	Min	Typ	Max	Unit
Operating temperature	VDD / 60%RH	-20	25	70	° C
Storage temperature	60%RH	-30	25	80	° 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, Iout = 1mA	3.0	3.2	-	V
	Output 0, Iout = -1mA	-	0.1	0.2	V
UART input level	Input 1, Iin = 1mA	2.0	3.3	5.0	V
	Input 0, Iin = -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, refer to command list for allocation				
SD interface	None				

## 5.0 Pin definition

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

### 6.0 Mechanical drawing

