



**WINSTAR Display Co.,Ltd.**  
**華凌光電股份有限公司**



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### SPECIFICATION

**MODULE NO.: WF70MTIBGDRGA#**

### General Specifications

Item	Dimension	Unit
Size	7.0	inch
Dot Matrix	800 x RGB x 480 (TFT)	dots
Module dimension	180.0(W) x 101.2(H) x 14.975 (D)	mm
Active area	154.08 x 85.92	mm
Dot pitch	0.0642 x 0.179	mm
LCD type	TFT, Normally White, Transmissive	
View Direction	12 o'clock	
Gray Scale Inversion Direction	6 o'clock	
Aspect Ratio	16:9	
Backlight Type	LED, Normally White	
Interface	Uart 19200 Baud rate/SPI	
PCAP IC	FT5426 or Equivalent	
PCAP FW Version	V03	
Touch Screen	With Projected capacitive touch screen (PCAP)	
Surface	Glare	

\*Color tone slight changed by temperature and driving voltage

# Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	TOP	-20	—	+70	°C
Storage Temperature	TST	-30	—	+80	°C

# Electrical Characteristics

## 1. Operating conditions

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For LCM	VBUS	—	4.5	5	5.5	V
Supply Current For LCM	IBUS	—	—	450	670	mA
Power Consumption	—	VBUS=5V	—	2250	3685	mW

## 2. LED driving conditions (LED Driver system build in )

Parameter	Symbol	Min	Typ	Max	Unit
LED current	-	-	180	-	mA
Power Consumption	-	1620	-	1890	mW
LED voltage	A~K	9.0	-	10.5	V
LED Life Time	-	-	50,000	-	Hr

# Interface

CON 2			
Pin	Symbol	I/O	Function
1	GND	Power Supply	Power Ground
2	TX	O	Uart Transmit pin
3	RX	I	Uart Receive pin
4	VBUS	Power Supply	Power supply : 5V
5	D+	I/O	USB Data +
6	D-	I/O	USB Data -
7	GND	Power Supply	Power Ground
8	RST	I	Reset (active Low)
9	GND	Power Supply	Power Ground
10	PWM	O	Pulse width modulation
11	GND	Power Supply	Power Ground
12	VBUS	Power Supply	Power supply : 5V

CON 3			
Pin	Symbol	I/O	Function
1	GND	Power Supply	Power Ground
2	SW1	I	Switch ( active low)
3	SW2	I	Switch ( active low)
4	SW3	I	Switch ( active low)
5	SW4	I	Switch ( active low)
6	GND	Power Supply	Power Ground
7	SDI	O	Master Input Slave Output (MISO)
8	SDO	I	Master Output Slave Input (MOSI)
9	SCK	I	Serial Clock
10	SCS	I	Serial Chip selection
11	SPI_IN	O	Serial Interrupt
12	VBUS	Power Supply	Power supply : 5V

# Contour Drawing

