



WINSTAR Display Co.,Ltd.
華凌光電股份有限公司



SPECIFICATION

MODEL NO. : WLOF00043000WGDAASA00

Summary

4.3 Inch Smart Display (RS485 series) Features

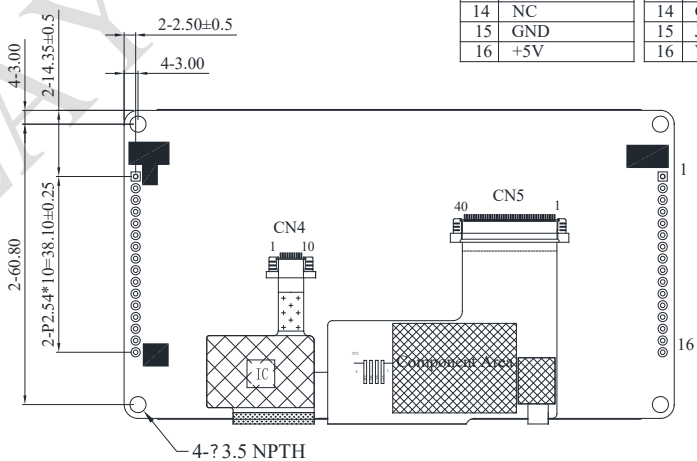
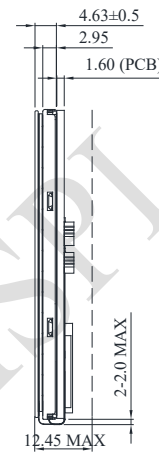
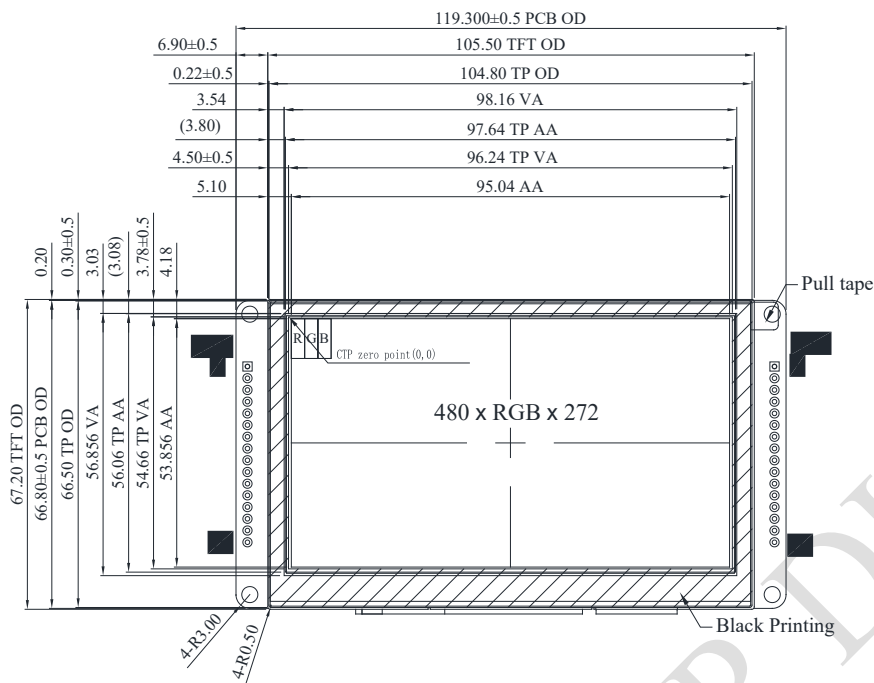
1. DC 5-24V working voltage.
2. Self-testing after booting function.
3. RS485 communication interface with Modbus protocol.
4. Built in 16MB flash memory, store the fonts and pictures.
5. Support capacitive touch panel (CTP).
6. Embedded buzzer controlled by Master Device.
7. Demo set HOST can be used on multiple platforms, such as Computer (with USB to RS-485 Dongle), MCU.

Product information

General information

Item	Standard Value	Unit
Operating voltage	5-24	Vdc
Communication Interface	RS485 differential	-
MCU	STM32F750	N/A
Flash Memory	16	MB
SDRAM Frequency	108	Mhz
LCD display size	4.3	inch
Dot Matrix	480 × RGB × 272(TFT)	dots
Module dimension	119.3(W) × 67.2(H) × 12.45(D)	mm
Active area	95.04(W) × 53.856(H)	mm
Pixel pitch	0.198(H) × 0.198(V)	mm
Brightness	Min: 300; Typ: 400	cd/m ²
LCD type	TFT, Normally Black, Transmissive	
View Direction	80/80/80/80	
Aspect Ratio	16:9	
Touch Panel	Projected Capacitive Touch Panel (PCAP)	
Surface	Glare	

Contour Drawing



CN1		CN2	
PIN	SYMBOL	PIN	SYMBOL
1	GND	1	NC
2	RS485+	2	NC
3	RS485-	3	NC
4	VDD_5V	4	NC
5	GND	5	NC
6	NC	6	NC
7	NC	7	NC
8	VDD_5V	8	NC
9	NC	9	NC
10	NC	10	GND
11	GND	11	JTAG SWDO
12	GND	12	NRST
13	NC	13	JTAG SWDI
14	NC	14	GND
15	GND	15	JTAG SWCLK
16	+5V	16	VDD3V

The non-specified tolerance of dimension is ±0.3 mm.

Absolute Maximum Ratings

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

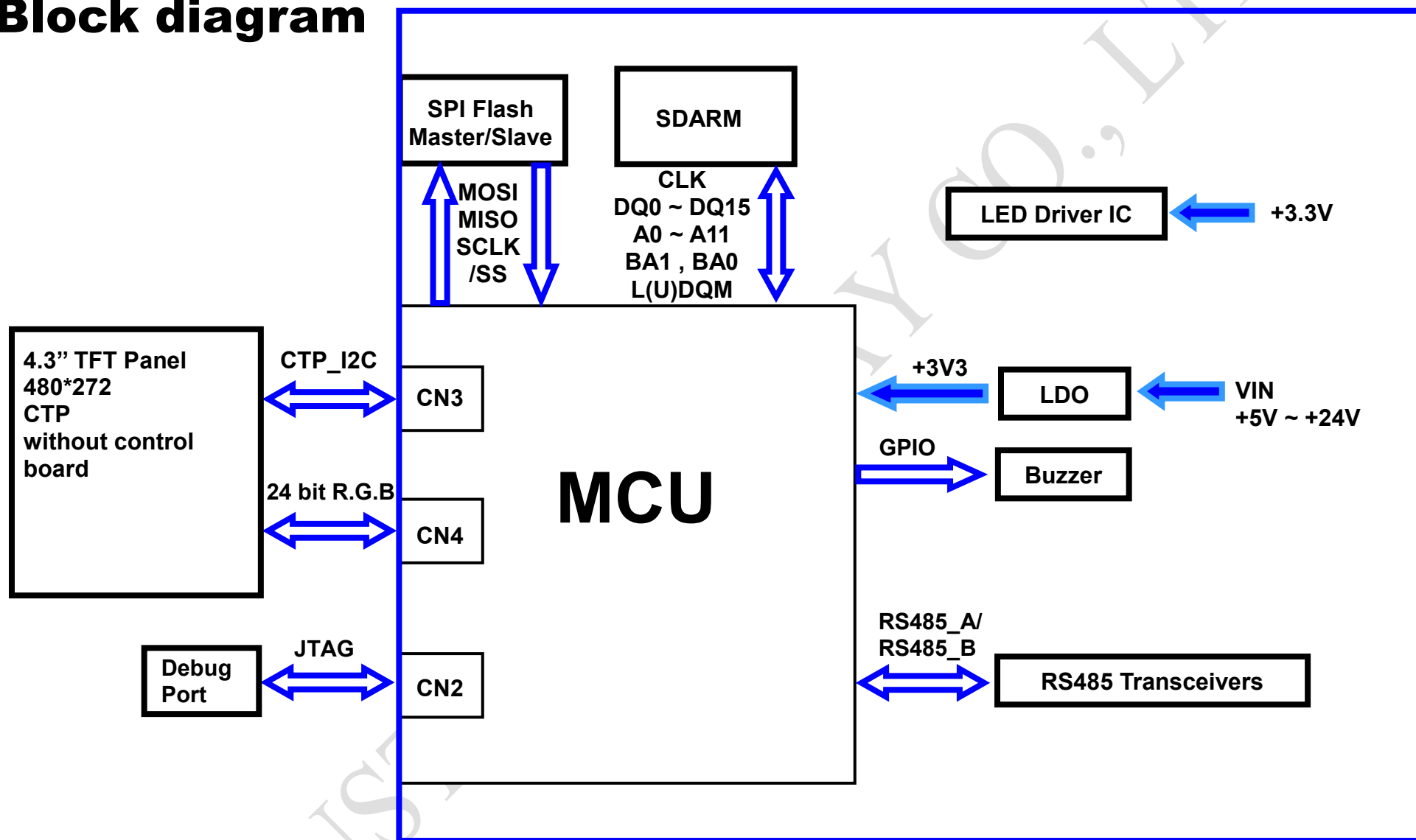
Electrical Characteristics

Item	Symbol	Min	Typ	Max	Unit
Supply Voltage	VCC	5	12	24	V
Supply Current	ICC	-	170		mA

BOM

Item	Description
LCM	WF43WTWAEDNGA#
PCBA	SV10004R300WA00N0104

Block diagram



Interface

CN1 definition:

Pin	Symbol	Function	Remark
1	GND	GND	Output
2	RS485+	RS485 D+	I/O
3	RS485-	RS485 D-	I/O
4	+5V	VIN	Input
5	GND	GND	Output
6-7	NC	--	--
8	+5V	VIN	Input
9-10	NC	--	--
11-12	GND	GND	Output
13-14	NC	--	--
15	GND	Power GND	Input
16	+5V	Power +5V ~ +24V	Input

CN2 definition:

Pin	Symbol	Function	Remark
1-9	NC	--	--
10	GND	GND	Output
11	JTAG_SWDO	Data pin for JTAG interface	I/O
12	NRST	Reset pin for JTAG interface	Input
13	JTAG_SWDI	Data pin for JTAG interface	I/O
14	GND	GND for JTAG interface	Output
15	JTAG_SWCLK	CLK pin for JTAG interface	Input
16	VDD3V	3.3V power for JTAG interface	Output