

SMART DISPLAY SPECIFICATION



Think good, Do good, Be good !



SPECIFICATION

MODEL NO.	WL0F0007000A8GAACSA00
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Summary

7 Inch Smart Display (CAN series) Features

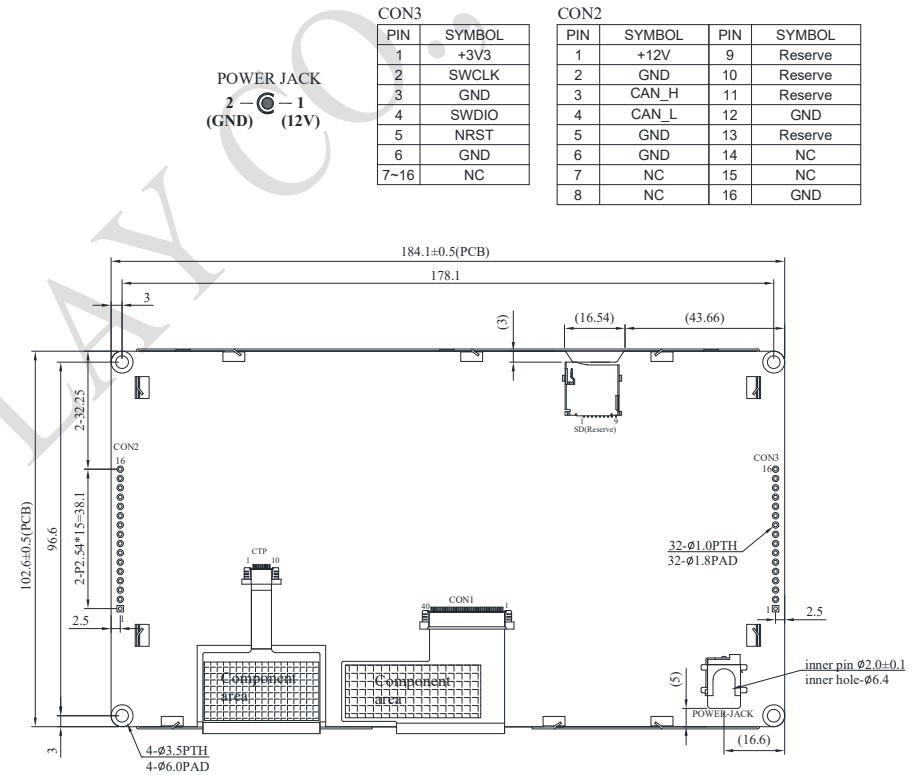
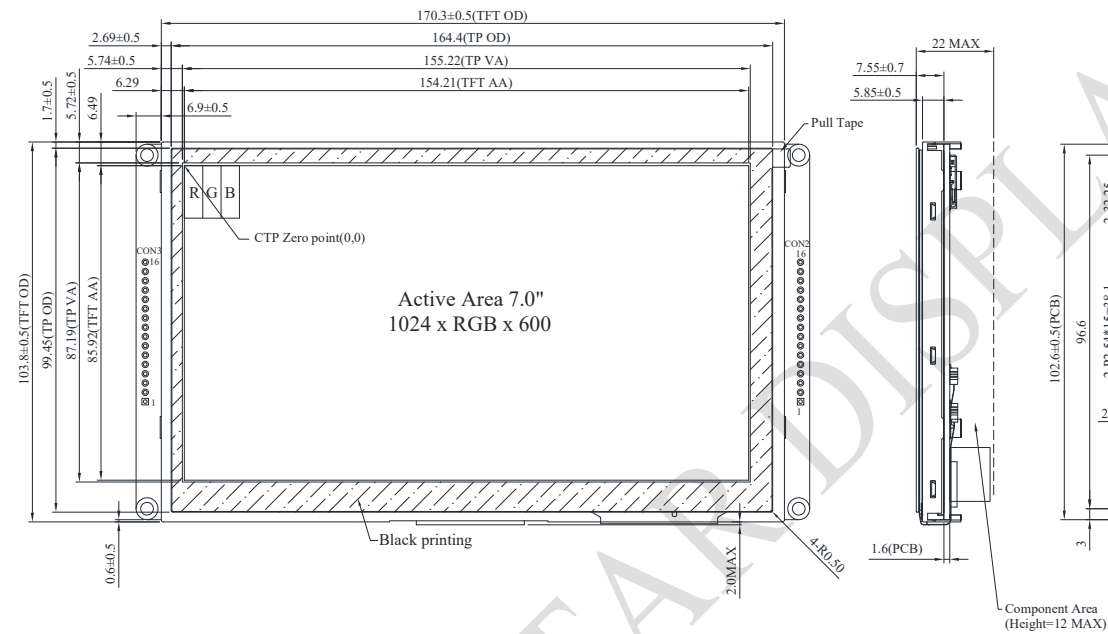
1. +12V power supply input, the power consumption is around 6W.
2. Self-testing after booting function.
3. CAN bus communication interface.
4. Support Custom CAN ID protocol, default baud rate is 250KB.
5. Built in 16MB flash memory, store the font and Object Dictionary Data.
6. Support capacitive touch panel (CTP).
7. Embedded buzzer controlled by Master Device.
8. HOST can be used on multiple platforms, such as Computer (with USB to CAN Dongle), MCU, Raspberry Pi (with PiCAN2).

Product information

General information

Item	Standard Value	Unit
Operating voltage	5~16V	Vdc
Communication Interface	CAN bus	--
MCU	STM32F746 216MHz	N/A
Flash Memory	16	MB
SDRAM Memory	166	MB
LCD display size	7.0	inch
Dot Matrix	1024 x RGBx600(TFT)	dot
Module dimension	184.1(W) x 103.8(H) x 22(D)	mm
Active area	154.2144 x 85.92	mm
Pixel pitch	0.1506 x 0.1432	mm
Brightness	Min:400; Typ:450	cd/m2
LCD type	TFT, Normally Black, Transmissive	
View Direction	85/85/85/85	
Aspect Ratio	16:9	
With /Without TP	With CTP	
Surface	Glare	

Contour Drawing



The non-specified tolerance of dimension is $\pm 0.3\text{mm}$.

Absolute Maximum Ratings

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

Note: Device is subject to be damaged permanently if stresses beyond those absolute maximum ratings listed above

1. Temp. $\leq 60^{\circ}\text{C}$, 90% RH MAX. Temp. $> 60^{\circ}\text{C}$, Absolute humidity shall be less than 90% RH at 60°C

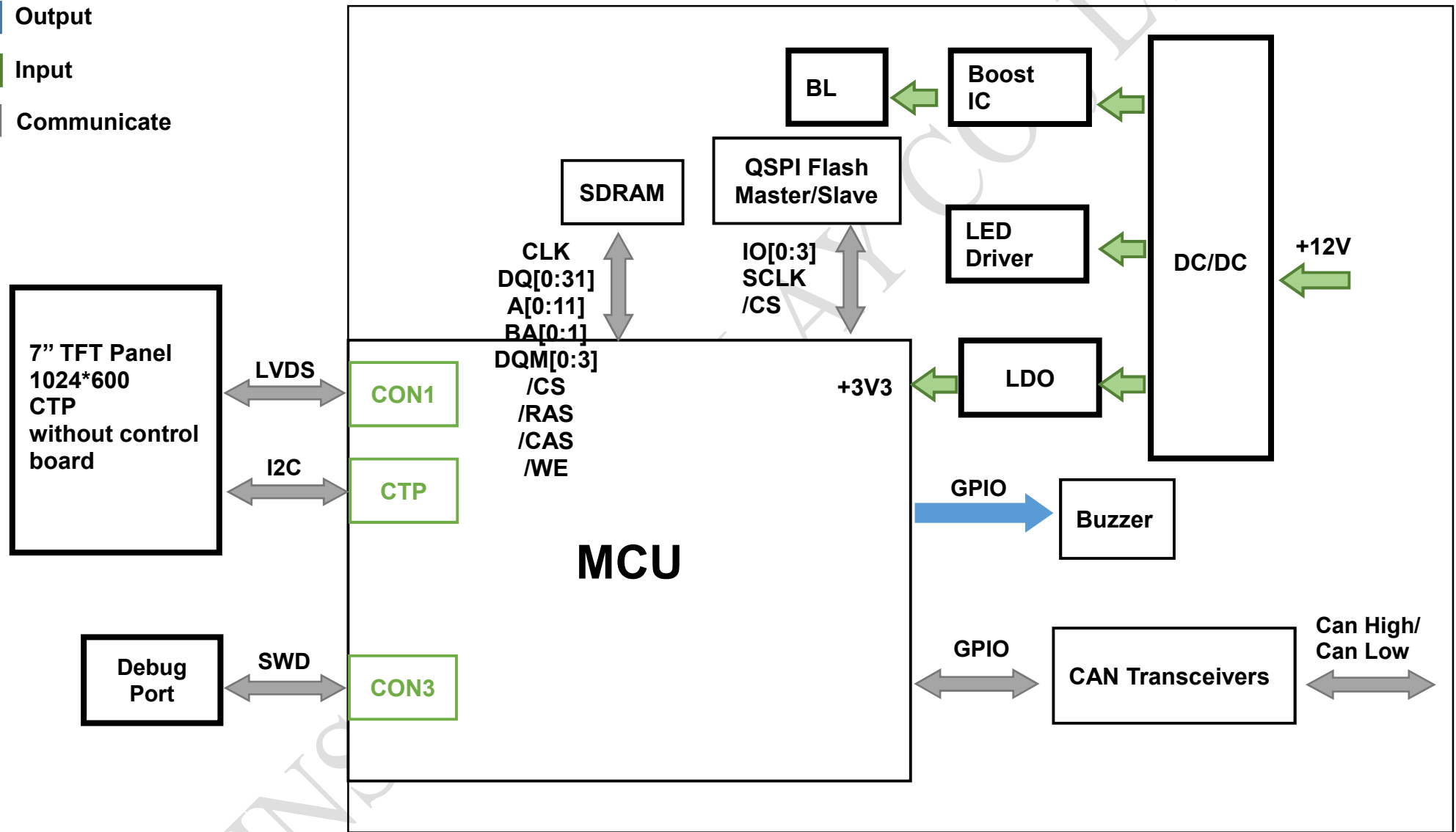
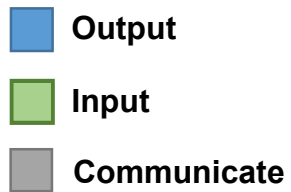
Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage	VCI	—	5	12	16	V
Operating current	I(mA)	-	-	490	-	mA

BOM

Item	Description	Remark
LCM	WF70A8TYAHLNGB#	
PCBA	SV10007R00AAA00N0100	

Block Diagram



Interface

CON2 definition:

Pin	Symbol	Function	Remark
1	+12V	Power supply12V input	Input
2	GND	Power supply GND input	Input
3	CAN_High	CAN bus D+	I/O
4	CAN_Low	CAN bus D-	I/O
5	GND	Power supply GND input	Input
6	GND	Power supply GND input	Input
7	NC	—	—
8	NC	—	—
9	Reserve	—	—
10	Reserve	USART RX interface(Reserve)	Reserve
11	Reserve	USART TX interface(Reserve)	Reserve
12	GND	GND	GND
13	Reserve	—	—
14	NC	—	—
15	NC	—	—
16	GND	GND	GND

CON3 definition:

Pin	Symbol	Function	Remark
1	+3V3	3.3V power for JTAG interface	Output
2	SWCLK	CLK pin for JTAG interface	Input
3	GND	GND for JTAG interface	Output
4	SWDIO	Data pin for JTAG interface	I/O
5	NRST	Reset pin for JTAG interface	Input
6	GND	GND	Output
7~16	NC	—	—