

Features

- 9" TFT
- HDMI Input
- 1024 x 600 Resolution
- 1050 cd/m² Brightness
- IPS Panel
- Full Viewing Angles
- -20°C to +70°C Operating Temperatures
- High Contrast Ratio
- 16.7M Colours
- PCAP Touch Panel

RS PRO 9,, HDMI TFT LCD Touch Display

RS Stock No.: 0712650



RS PRO Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

Product Description

This RS PRO HDMI Display is a 9" (16:9) TFT LCD Display, with a high resolution of 1024x600 (WSVGA), IPS technology and high brightness. This model is composed of:

- *A TFT LCD panel*
- *Backlight system*
- *HDMI interface*
- *PCAP Touch Panel*

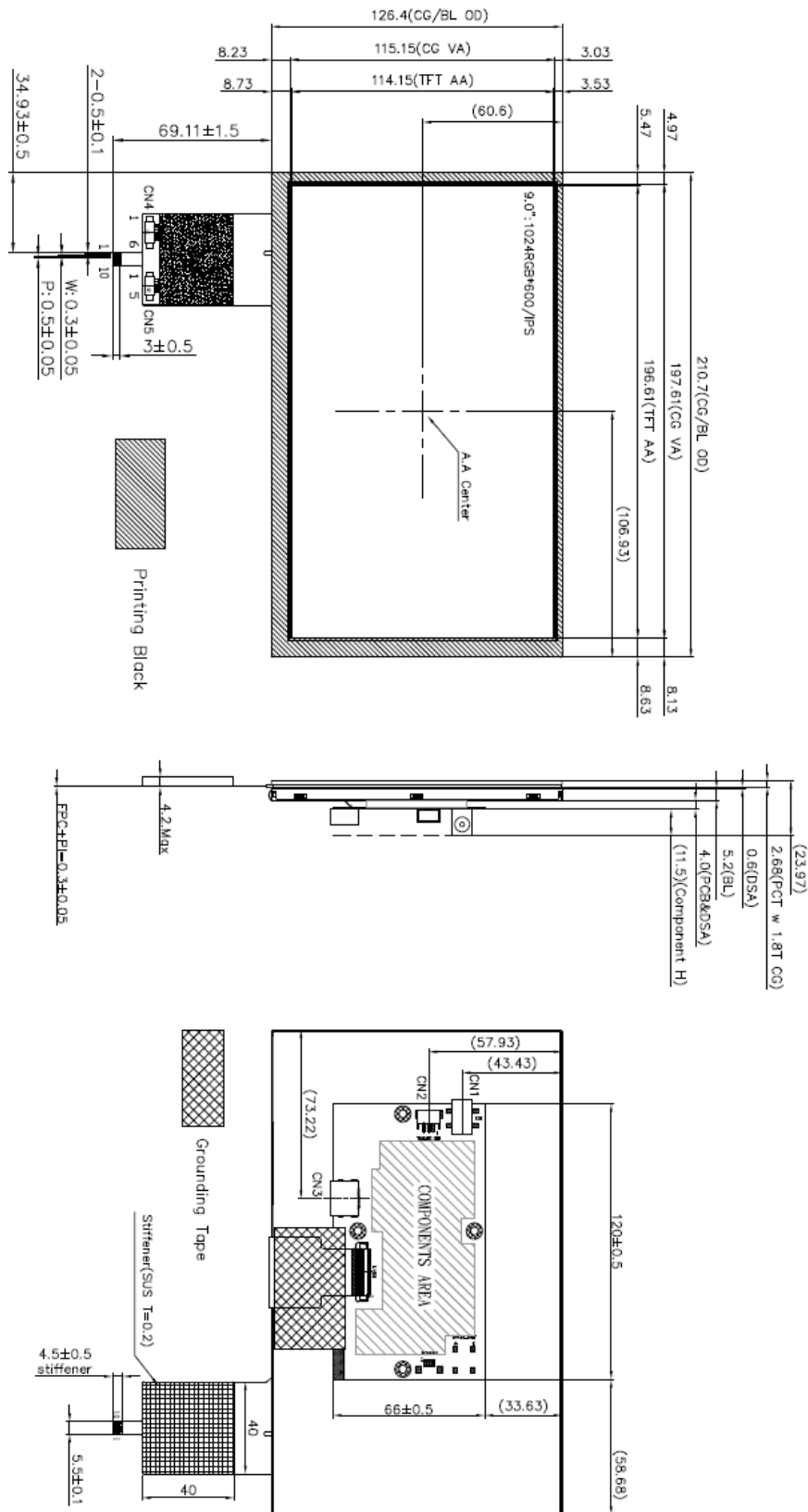
Engineered for seamless integration with embedded computing systems, this TFT display connects effortlessly to any device featuring an HDMI output. Its high-brightness screen and wide operating temperature range deliver outstanding performance in both indoor and outdoor environments, making it the perfect choice for demanding applications.

General Specifications

Panel Size	9"
Resolution	1024x600
Display Technology	IPS
Contrast Ratio	800
Brightness (cd/m2)	1050
Video Input	HDMI
Operating Temperature	-20°C to +70°C
Storage Temperature	-30°C to +80°C
Touch Panel	PCAP
Touch Panel Interface	USB & I2C

Mechanical Specifications

Overall Dimensions WxHxD (mm)	210.7 x 126.4 x 23.97
Active Area WxH (mm)	196.61 x 114.15



CN1 - Power Input - DC Jack SCD480CCS000B00GE or compatible

Pin No.	Symbol	I/O	Function
1	12V	P	Power Supply +12V
2	GND	P	Ground

CN2 – Backlight Control - WAFER P2.0mm: 2001S-03-RTE or compatible

Pin No.	Symbol	I/O	Function
1	GND	P	Ground
2	PWM	I	Back-light Dimming control (internal pull up to 3.3V)
3	N.C.	-	No Connection

CN3 – HDMI A Type

Pin No.	Symbol	I/O	Function
1	TMDS 2+	I	TMDS Data2+
2	GND	P	TMDS Data2 Shield
3	TMDS 2-	I	TMDS Data2-
4	TMDS 1+	I	TMDS Data1+
5	GND	P	TMDS Data1 Shield
6	TMDS 1-	I	TMDS Data1-
7	TMDS 0+	I	TMDS Data0+
8	GND	P	TMDS Data0 Shield
9	TMDS 0-	I	TMDS Data0-
10	TMDS CLK+	I	TMDS Clock+
11	GND	P	TMDS Clock Shield
12	TMDS CLK-	I	TMDS Clock-
13	N.C.	-	N.C.
14	N.C.	-	N.C.
15	DDC_SCL	I	IIC SCL to EDID ROM
16	DDC_SDA	I/O	IIC SDA to EDID ROM

17	GND	P	DDC/CEC Ground
18	HD_5V	P	+5V Power
19	HPD	O	Hot Plug Detect

CN4 – PCAP I2C Touch - WAFER P1.25mm:50271-0060L-002 or compatible

Pin No.	Symbol	I/O	Function
1	GND	P	Ground
2	VDD	P	Power Supply for IIC
3	SCL	I	IIC SCL to PCT Controller
4	SDA	I/O	IIC SDA to PCT Controller
5	Int	O	Interrupt
6	RESET	1	Reset

CN5 – PCAP USB Touch - WAFER P1.25mm:50271-0050L-002 or compatible

Pin No.	Symbol	I/O	Function
1	GND	P	Earth Ground (Shield)
2	VDD_5V	P	Power Supply for USB
3	GND	P	Power Ground
4	D+	I/O	USB Data+
5	D-	I/O	USB Data-

CN6 – PCAP I2C & USB Touch - FPC

Pin No.	Symbol	I/O	Function
1	GND	P	Ground
2	VDD	P	Power Supply for IIC
3	SCL	I	IIC SCL to PCT Controller
4	SDA	I/O	IIC SDA to PCT Controller
5	Int	O	Interrupt
6	RESET	1	Reset

7	VDD_5V	P	Power Supply for USB
8	D+	I/O	USB Data+
9	D-	I/O	USB Data-
10	GND	P	Ground

Electrical Specifications

HDMI TFT LCD Module

Item	Symbol	Values			Unit
		Min	Typ.	Max.	
Supply Voltage	12V	11	12	13	V
PWM frequency		100		10K	Hz
PWM Duty		17	-	100	%
PWM Dimming Voltage	VPWM-IH	3.3		8	V
	VPWM-IL	-	0.3	-	V
Supply Current	ICC(12V)	-	TBD		mA
LED life-time		-	40000	-	Hr

Optical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Brightness	--	Note1, Note 3, ($\theta = 0^\circ$, Normal Viewing Angle)	840	1050	--	cd/m ²
Uniformity	B-uni		70	75	-	%
Contrast Ratio	CR		600	800	--	--
Response Time	Tr + Tf		--	30	40	ms
Color Chromaticity	White		Wx	0.260	0.310	0.360
		Wy	0.280	0.330	0.380	--
View angle	Horizontal	θ_{x+}	80	85	--	
		θ_{x-}	80	85	--	

	Vertical	θY+		80	85	--	
		θY-		80	85	--	

Projected Capacitive Touch Panel

Item	Specification	Unit
Screen Size	9	Inches
Type	Transparent Type Projected Capacitive Touch Panel	
Input Mode	Humans Finger	
Interface	I2C or USB	
Touch Number	10 Points	
Cover glass pencil hardness	7H	
Response Time	≤25ms	Ms
Controller IC	ILI2511	

Approvals

Declarations	UKCA / RoHS / REACH
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Similar Products

Stock No.	Brand	Product Name	Attribute 1	Attribute 2	Attribute 3
254-0007	RS PRO	7" HDMI TFT	1300 cd/m2 Brightness	Capacitive Touch	IPS Technology

254-0012	RS Pro	10.1" HDMI TFT	1250 cd/m2 Brightness	Capacitive Touch	IPS Technology
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