

Features

- 15" TFT
- HDMI Input
- 1024x768 Resolution
- 1350 cd/m² Brightness
- IPS Panel
- Full Viewing Angles
- -20°C to +70°C Operating Temperatures
- High Contrast Ratio
- 16.7M Colours
- PCAP Touch

RS PRO 15,, HDMI TFT LCD Display

RS Stock No.: 0712659



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 15 (4.3) TFT LCD Display, with a high resolution of 1024x768 (XGA), IPS technology and high brightness. This model is composed of:

- *A TFT LCD panel*
- *Backlight system*
- *HDMI interface*

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	15
Resolution	1024x768
Display Technology	IPS
Contrast Ratio	2500
Brightness (cd/m2)	1350
Video Input	HDMI
Operating Temperature	-20°C to +70°C
Storage Temperature	-30°C to +80°C
Touch Panel	PCAP Touch
Touch Panel Interface	USB & I2C

Mechanical Specifications

Overall Dimensions WxHxD (mm)	341.1 x 265.1 x 27.29
Active Area WxH (mm)	304.1 x 228.1

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	N.C.	I	N.C.
3	PWM	-	Back-light Dimming control (internal pull up to 3.3V)

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 I2C
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 -EARTH	P	Earth Ground (Shield)
2	VDD_5V	P	Power Supply for USB I/F
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
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1	GND	P	Ground
2	VDD	P	Power Supply for I2C
3	SCL	I	IIC SCL to PCT Controller
4	SDA	I/O	IIC SDA to PCT Controller
5	Int	0	Interrupt signal to inform the host processor that touch data is ready for read
6	RESET	1	External low signal reset the chip.
7	VDD_5V	P	Power Supply for USB I/F
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)	-	1.85	2.05	mA
LED life-time		50000	-	-	Hr

Optical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Brightness	--		1080	1350	--	cd/m2

Contrast Ratio		CR		1800	2500	--	--
Response Time		Tr		--	16	21	ms
		Tf		--	7	14	ms
Color Chromaticity	White	Wx	Note1, Note 3, ($\theta = 0^\circ$, Normal Viewing Angle)	0.263	0.313	0.363	--
		Wy		0.279	0.329	0.379	--
	Red	Rx		0.597	0.647	0.697	
		Ry		0.288	0.338	0.388	
	Green	Gx		0.271	0.321	0.371	
		Gy		0.556	0.606	0.656	
	Blue	Bx		0.107	0.157	0.207	
		By		0.000	0.039	0.089	
View angle	Horizontal	θ_{x+}	Center CR \geq 10	80	88	--	
		θ_{x-}		80	88	--	
	Vertical	θ_{Y+}		80	88	--	
		θ_{Y-}		80	88	--	

Projected Capacitive Touch Panel

Item	Specification	Unit
Screen Size	15	Inches
Type	Transparent Type Projected Capacitive Touch Panel	
Input Mode	Humans Finger	
Interface	I2C or USB	
Touch Number	10 Points	
Cover glass pencil hardness	6H	
Response Time	≤ 25 ms	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
0712658	RS PRO	15" HDMI TFT	1500 cd/m2 Brightness	No Touch	IPS Technology
HA-121GIEBCAD6- V1(RS)	RS PRO	12.1" HDMI TFT	1300 cd/m2 Brightness	PCAP Touch	IPS Technology