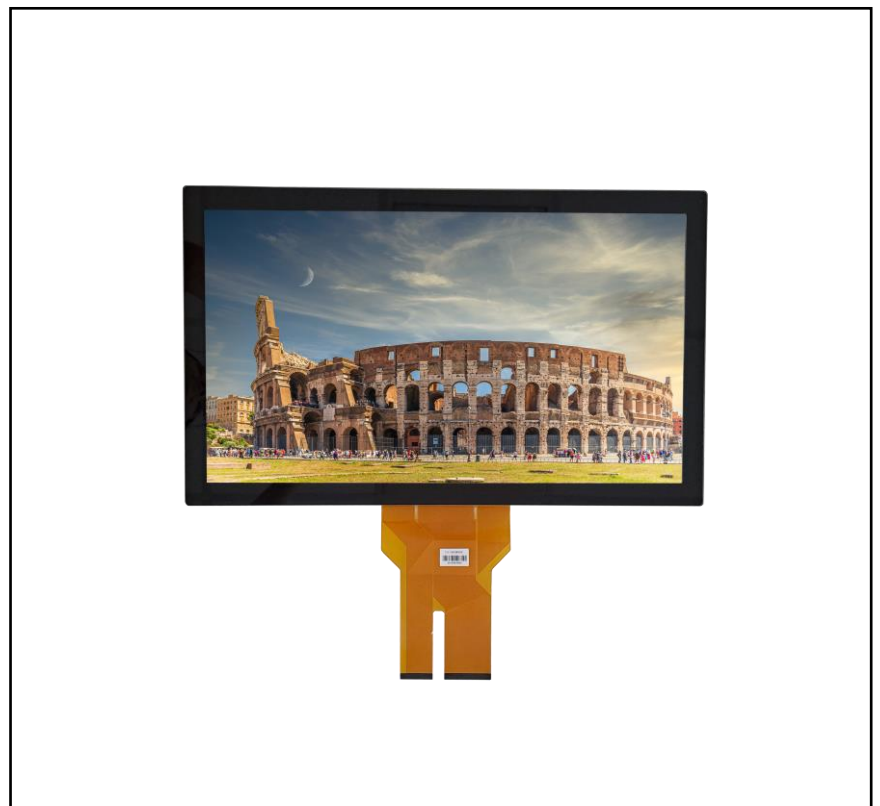


Features

- 18.5" TFT
- HDMI Input
- 1920x1080 Resolution
- 1000 cd/m² Brightness
- IPS Panel
- Full Viewing Angles
- -30°C to +80°C Operating Temperatures
- High Contrast Ratio
- 16.7M Colours

RS PRO 18.5,, HDMI TFT LCD Display

RS Stock No.: 0712660



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 18.5 (16.9) TFT LCD Display, with a high resolution of 1920x1080 (FHD), IPS technology and high brightness. This model is composed of:

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

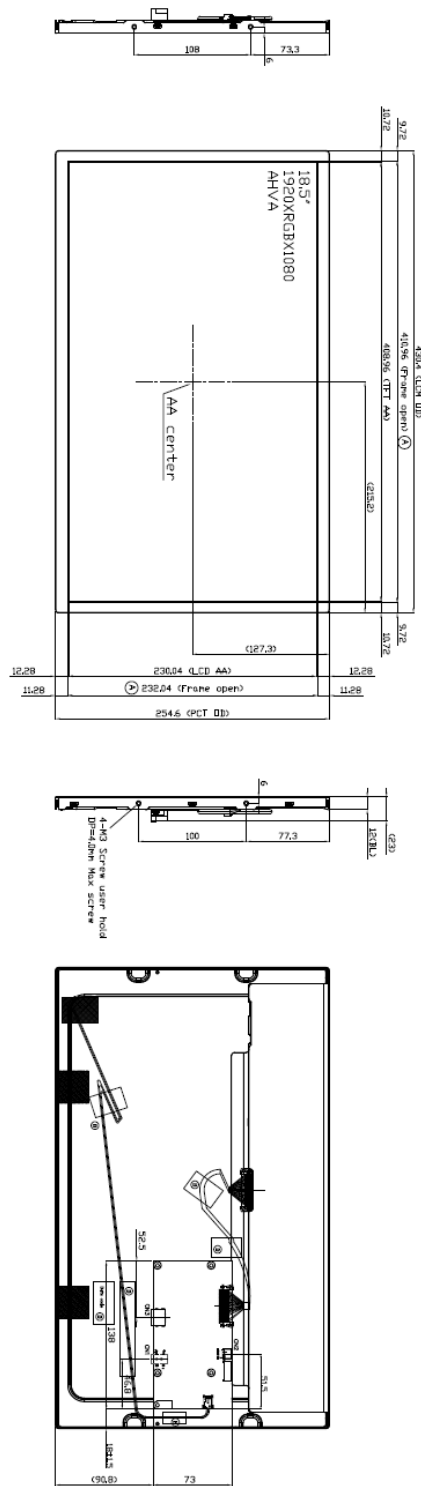
Engineered for seamless integration with embedded computing systems, this TFT display connects effortlessly to any device featuring an HDMI output. Its high-brightness screen and wide operating temperature range deliver outstanding performance in both indoor and outdoor environments, making it the perfect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

General Specifications

Panel Size	18.5
Resolution	1920x1080
Display Technology	IPS
Contrast Ratio	1000
Brightness (cd/m2)	1000
Video Input	HDMI
Operating Temperature	-30°C to +80°C
Storage Temperature	-30°C to +80°C
Touch Panel	No Touch
Touch Panel Interface	N/A

Mechanical Specifications

Overall Dimensions WxHxD (mm)	430.4 x 254.6 x 23
Active Area WxH (mm)	408.96 x 230.04



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	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

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	-	0.3	V
Supply Current	ICC(12V)	-	2.58	2.78	mA
LED life-time		50000	-	-	Hr

Optical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit	
Brightness	--	Note1, Note 3, ($\theta = 0^\circ$, Normal Viewing Angle)	800	1000	--	cd/m ²	
Uniformity	B-uni		80	85	--	%	
Contrast Ratio	CR		800	1000	--	--	
Response Time	Tr + Tf		--	20	40	ms	
Color Chromaticity	White		Wx	0.249	0.299	0.349	--
			Wy	0.265	0.315	0.365	--
	Red		Rx	0.596	0.646	0.696	
			Ry	0.283	0.333	0.383	
	Green	Gx	0.255	0.305	0.355		

	Blue	Gy		0.565	0.615	0.665	
		Bx		0.105	0.155	0.205	
		By		0.010	0.060	0.110	
View angle	Horizontal	θx+	Center CR≥10	--	89	--	
		θx-		--	89	--	
	Vertical	θY+		--	89	--	
		θY-		--	89	--	
Colour Gamut			--	72	--	%	

Approvals

Declarations	UKCA / RoHS / REACH
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Similar Products

Stock No.	Brand	Product Name	Attribute 1	Attribute 2	Attribute 3
0712661	RS PRO	18.5" HDMI TFT	850 cd/m2 Brightness	PCAP Touch	IPS Technology
0712662	RS PRO	21.5" HDMI TFT	500 cd/m2 Brightness	No Touch	IPS Technology