

Features

- 10.1" TFT
- USB-C Input
- 1024x600 Resolution
- 550 cd/m² Brightness
- IPS Panel
- Full Viewing Angles
- 0°C to +70°C Operating Temperatures
- High Contrast Ratio
- 16.7M Colours
- PCAP Touch

RS PRO 10.1,, USB-C TFT LCD Display

RS Stock No.: 0712672



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 USB-C Display is a 10.1" (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*
- *USB-C interface*

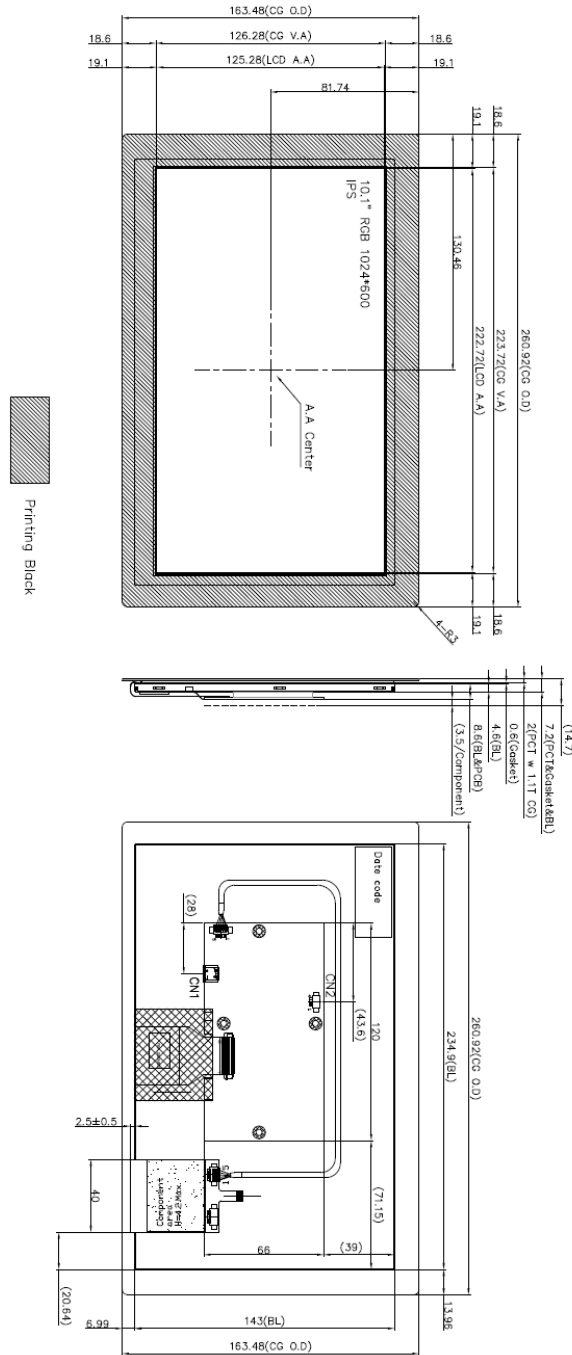
Engineered for seamless integration with embedded computing systems, this TFT display connects effortlessly to any device featuring an USB-C PD output. The single USB-C input powers the display, video and touch from a single cable. Its high-brightness screen and wide operating temperature range deliver outstanding performance in both indoor and outdoor environments, making it the perfect choice for demanding applications.

General Specifications

Panel Size	10.1
Resolution	1024x600
Display Technology	IPS
Contrast Ratio	1000
Brightness (cd/m2)	550
Video Input	USB-C
Operating Temperature	-0°C to +70°C
Storage Temperature	-30°C to +80°C
Touch Panel	PCAP
Touch Panel Interface	USB-C

Mechanical Specifications

Overall Dimensions WxHxD (mm)	260.92 x 163.48 x 14.7
Active Area WxH (mm)	222.72 x 125.28



CN1 – USB-Type-C

In No.	Symbol	D	Function

A1	GND	P	Ground
A2	TX1+	I/O	High speed data path TX for DP Alt Mode.
A3	TX1-	I/O	
A4	VBUS	P	Cable bus power +5V only.
A5	CC1	I/O	Type-C Port Configuration Channel
A6	D+	I/O	USB 2.0 Interface.
A7	D-	I/O	
A8	SBU1	I/O	USB Type-C Sideband Use 1
A9	VBUS	P	Cable bus power +5V only.
A10	RX2-	I/O	High speed data path RX for DP Alt Mode.
A11	RX2+	I/O	
A12	GND	P	Ground
B1	GND	P	Ground
B2	TX2+	I/O	High speed data path TX for DP Alt Mode.
B3	TX2-	I/O	
B4	VBUS	P	Cable bus power +5V only.
B5	CC2	I/O	Type-C Port Configuration Channel
B6	D+	I/O	USB 2.0 Interface.
B7	D-	I/O	
B8	SBU2	I/O	USB Type-C Sideband Use 2
B9	VBUS	P	Cable bus power +5V only.
B10	RX1-	I/O	High speed data path RX for DP Alt Mode.
B11	RX1+	I/O	
B12	GND	P	Ground

CN2 – Backlight Control – 50271-0040L-002

Pin No.	Symbol	I/O	Function
1	Power on/off	I	Power On/Off control.
2	Brightness increased	I	Brightness Increase.

3	Brightness decrease	I	Brightness decrease.
4	GND	P	Ground

Electrical Specifications

TFT LCD Module

Item	Symbol	Values			Unit
		Min	Typ.	Max.	
Supply Voltage	VBUS	-	5.0	5.5	V
required current	IBUS	-	970	1070	mA
LED life time	-	-	50000	-	Hr

Optical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Brightness	--		440	550	--	cd/m ²
Uniformity	B-uni	Note1, Note 3, ($\theta = 0^\circ$, Normal Viewing Angle)	70	75	--	%
Contrast Ratio	CR		800	1000	--	--
Response Time	Tr + Tf		--	25	35	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	θ_{Y+}	80	85	--	
		θ_{Y-}	80	85	--	

Projected Capacitive Touch Panel

Item	Specification	Unit
Screen Size	10.1	Inches
Type	Transparent Type Projected Capacitive Touch Panel	
Input Mode	Humans Finger	
Interface	USB	
Touch Number	10 Points	
Cover glass pencil hardness	7H	
Response Time	≤25ms	Ms
Controller	ILI2511	

Approvals

Declarations	UKCA / RoHS / REACH
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Similar Products

Stock No.	Brand	Product Name	Attribute 1	Attribute 2	Attribute 3
0712671	RS PRO	10.1" USB-C TFT	600 cd/m2 Brightness	No Touch	IPS Technology
0712670	RS PRO	9" USB-C TFT	850 cd/m2 Brightness	PCAP Touch	IPS Technology