

## Features

- 10.1" TFT
- USB-C Input
- 1024x600 Resolution
- 600 cd/m<sup>2</sup> Brightness
- IPS Panel
- Full Viewing Angles
- 0°C to +70°C Operating Temperatures
- High Contrast Ratio
- 16.7M Colours

## RS PRO 10.1,, USB-C TFT LCD Display

RS Stock No.: 0712671



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*

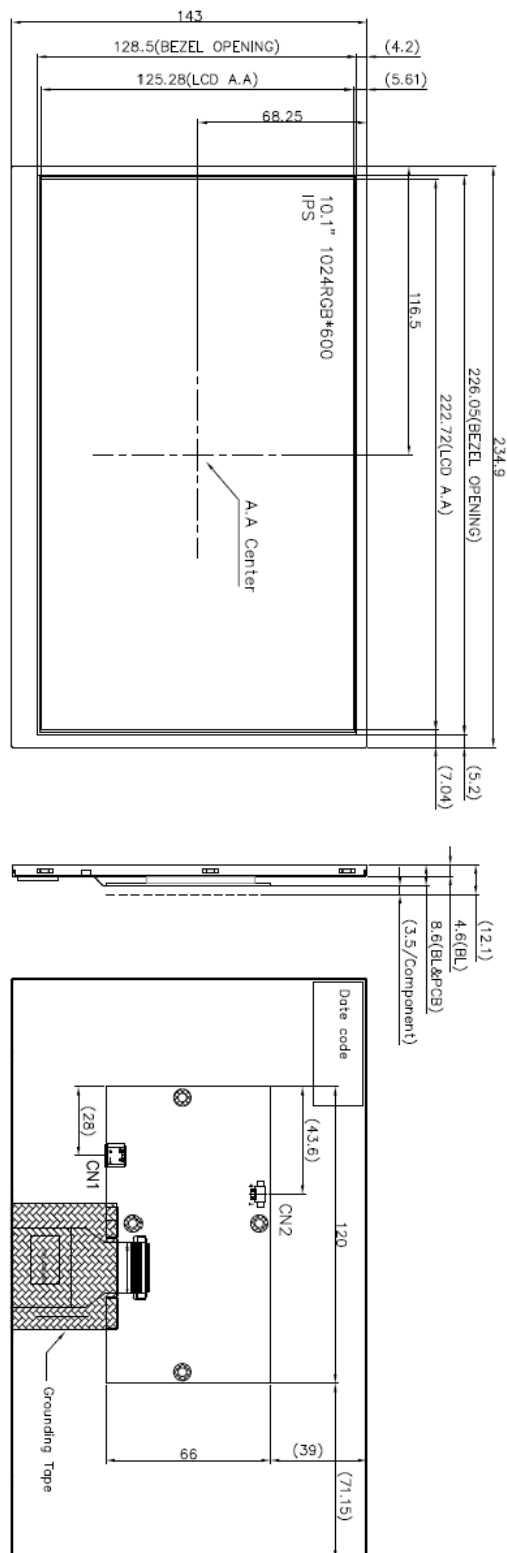
*Engineered for seamless integration with embedded computing systems, this TFT display connects effortlessly to any device featuring an USB-C PD output. The single USB-C input powers the display, video and touch from a single cable. Its high-brightness screen and wide operating temperature range deliver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

## General Specifications

<b>Panel Size</b>	10.1
<b>Resolution</b>	1024x600
<b>Display Technology</b>	IPS
<b>Contrast Ratio</b>	1000
<b>Brightness (cd/m2)</b>	600
<b>Video Input</b>	USB-C
<b>Operating Temperature</b>	-0°C to +70°C
<b>Storage Temperature</b>	-30°C to +80°C
<b>Touch Panel</b>	No Touch
<b>Touch Panel Interface</b>	N/A

## Mechanical Specifications

<b>Overall Dimensions WxHxD (mm)</b>	234.9 x 143 x 12.1
<b>Active Area WxH (mm)</b>	222.72 x 125.28



## CN1 – USB Type-C

Pin No.	Symbol	I/O	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	-	870	970	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)	480	600	--	cd/m <sup>2</sup>
Uniformity	B-uni		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	$\theta_{x+}$	80	85	--	
		$\theta_{x-}$	80	85	--	

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

## Approvals

<b>Declarations</b>	UKCA / RoHS / REACH
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## Similar Products

Stock No.	Brand	Product Name	Attribute 1	Attribute 2	Attribute 3
<b>0712672</b>	RS PRO	10.1" USB-C TFT	550 cd/m2 Brightness	PCAP Touch	IPS Technology
<b>0712669</b>	RS PRO	9" USB-C TFT	900 cd/m2 Brightness	No Touch	IPS Technology