



**HIGHNESS**<sup>TM</sup>

*One of a kind*

10.4" Industrial Grade Panel Mount Display

**PM104SV001**



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**HIGHNESS MICROELECTRONICS PVT. LTD.**

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## 1. Technical Specification

Screen Size	10.4" diagonal	
Active Area (H x V)	212.2 x 158.4 mm	
Resolution	800 x 600	
Aspect Ratio	4:3	
Pixel Pitch (H x V)	0.264 x 0.264 mm	
Color	16.2M	
Viewing Angle	80°/80°/60°/70°	
Luminance	400 cd/m <sup>2</sup> (Standard Model)	
	500~900 cd/m <sup>2</sup> (High Brightness Model)	
Contrast	700:1	
Response Time	35ms	
Operating Temperature	-20° to +70° C	
Storage Temperature	-20° to +70° C	
Input Interface	Options	HDMI
		HDMI, DVI & VGA
		DVI, HDMI, S-Video, Composite Video & VGA
Power Input	12V DC	
Power Consumption	20 Watt	
Backlight Type	LED	
Backlight Life	70,000 hours	
Enclosure	Mild Steel / Aluminum	
Mounting	Front Mounting	
	Back Mounting, VESA mount (Optional)	

## 2. Touch Screens (Optional)

### 2.1 Projected Capacitive Touchscreen

Touch Screen Type	Projected Capacitive
Interface	USB / I2C / UART
Input Method	Finger
Transparency	$\geq 80\%$ ( $\pm 3\%$ )
Haze	$< 3\%$
Surface Type	Antiglare
Operating Force	10-80 g
Durability	3,000,000 Touch at a Single Point
Hardness	$> 3H$
Capacitance	$< 5 Nf$
Supported OS	Windows, Linux & Android

### 2.2 Resistive Analog Touchscreen

Touch Screen Type	4/5 Wire Resistive
Interface	USB
Input Method	Stylus or Finger
Transparency	$\geq 85\%$ ( $\pm 3\%$ )
Haze	$< 3\%$
Surface Type	Antiglare
Operating Force	70-100 g
Durability	1,000,000 Touch at a Single Point
Hardness	$> 3H$
Supported OS	Windows & Linux

### 3. Enhancement Solutions (Optional)

#### 3.1. Anti-Reflective / Anti-Glare / Anti-Finger-Print Coating

Particulars	Details
Reflection	0.57%
Transparency	92%
Haze	15%
Surface Hardness	3H

#### 3.2. Surface Hardness Coating

Particulars	Details
Hardness	Upto 9H
Transparency	91.3%
Haze	0.2%
Water Resistance	60°C, 90% RH
Heat Resistance	140°C

#### 3.3. Optical Bonding

Particulars	Details
Structure	Glass + Glass (Soda Lime Glass + TFT-LCD Module or Touch Screen + TFT-LCD Module)
Temperature	-40 to +85°C
Humidity	0 to 95% RH
Transparency	91%
UV Resistance	UVA 340nm

#### 3.4. EMI-MESH

Item	Value	
Mesh Composition Base Material/ (Plated Deposit)	Copper	
Openings/ inch	82	
Wire Diameter	8μm	
Surface Resistance	< 0.15Ω/m <sup>2</sup>	
H Field 1MHz	89	
E 10 MHz	90	
Plane Wave	100 MHz	84
	400 MHz	77
	1 GHz	62
	10 GHz	42

## Model Numbers / Ordering Information

Model No.	Particulars	Details
PM104SV001	Base Model	-
PM104SV001-xx	Brightness	High Brightness
PM104SV001-xx-A	Input Interface	HDMI
PM104SV001-xx-B		HDMI, DVI & VGA Input
PM104SV001-xx-C		DVI, HDMI, S-Video, Composite Video & VGA
PM104SV001-xx-y-PT	Touch Screens	Projected Capacitive
PM104SV001-xx-y-RT		4 Wire Resistive Analog
PM104SV001-xx-y-5RT		5 Wire Resistive Analog
PM104SV001-xx-y-zz-AG/AR/AF	Enhancements	Anti-Reflective / Anti-Glare / Anti-Finger-Print Coating
PM104SV001-xx-y-zz-HF		Surface Hardness Coating
PM104SV001-xx-y-zz-OB		Optical Bonding
PM104SV001-xx-y-zz-##-E		EMI-MESH

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*(Manufacturer reserves the sole right to change the specifications without prior notice)*  
*(Touch screen will reduce the original luminance of the LCD display)*