



HIGHNESSTM

One of a kind

EMBEDDED DISPLAY

15" EMBEDDED PANEL PC

IDE150XG001-xx



Release Date
21st May 2021

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION WHICH IS SOLELY OWNED BY 'HIGHNESS MICROELECTRONICS PVT LTD'. ANY UNAUTHORISED COPY OR PRINTING OR PUBLISHING OF INFORMATION IN THIS DOCUMENT IN PART OR IN COMPLETE IS RESTRICTED.

HIGHNESS MICROELECTRONICS PVT LTD.

URL: www.highnessmicro.com, Email: sales@highnessmicro.com

1. Technical Specification

Screen Size	15" diagonal	
Active Area (H x V)	304.1 x 228.1 mm	
Resolution	1024 x 768	
Aspect Ratio	4:3	
Pixel Pitch (H x V)	0.297 x 0.297 mm	
Color	16.7M	
Viewing Angle (H, V)	160° / 140°	
Luminance	450 cd/m ²	
Contrast	700:1	
Response Time	12 ms	
Operating Temperature	-10° to +60° C	
Storage Temperature	-20° to +70° C	
Built in System	Processor- Quad Core Cortex-A17, up to 1.8GHz RAM- 2GB DDR3 1600MHz (4GB Max) Built in 8GB Internal Storage (32 Max) I/O Port: USB2.0, I2C, GPIO, IR Comm.: Serial, UART TTL	
Operating System Support	Android	Lollipop, Marshmallow, Nougat & Oreo (Version)
	Linux	Linux (18.04) with kernel version 4.4.154
Supported Formats	Video Format	H.264, MPEG-4, MPEG-2, MPEG-1, H.263, AVI, MP4, DIV, TS, TP, TRP, MKV, MOV, DAT, ASF, WMV, RM, RMVB.
	Image Format	JPEG, PNG
	Music Format	MP3, MP2, WMA, WAV
Network	Wi-Fi (up to 100 Mbps) Ethernet (100-1000 Mbps) Bluetooth	
Power Input	AC 240V	
Power Consumption	28W Max (Approx.)	
Backlight Type	LED	
Enclosure	Mild Steel / Aluminum	
Mounting	VESA standard	

2. Touch Screens (Optional)

2.1 Projected Capacitive Touchscreen

Touch Screen Type	Projected Capacitive (Multi Touch)
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	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	Linux

Model Numbers / Ordering Information

Model No.	Particulars	Details
IDE150XG001	Base Model	-
IDE150XG001-LN	Linux Base Model	With Linux OS
IDE150XG001-AD	Android Base Model	With Android OS
IDE150XG001-xx-PT	Touch Screens	Projected Capacitive Touch Screen
IDE150XG001-xx-RT		4 Wire Resistive Analog
IDE150XG001-xx-5RT		5 Wire Resistive Analog

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