HIGHNESS™

One of a kind

EMBEDDED DISPLAY

18.5" EMBEDDED PANEL PC

IDC185HD001-xx

Release Date
21st May 2021

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HIGHNESS MICROELECTRONICS LTD.

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1. Technical Specification

Screen Size		18.5" diagonal
Active Area (H x V)		409.8 x 230.4 mm
Resolution		1366 x 768
Aspect Ratio		16:9
Pixel Pitch (H x V)		300 x 300 µm
Color		16.7M
Viewing Angle (H, V)		170º/ 160º
Luminance		250 ~ 400 ~ 900 cd/m^2
Contrast		1000:1
Response Time		5 ms
Operating Temperature		-10º to +60º C
Storage Temperature		-20º to +70º 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		36W 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	≥ 80% (± 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

Model Numbers / Ordering Information

Model No.	Particulars	Details
IDE185HD001	Base Model	-
IDE185HD001-LN	Linux Base Model	With Linux OS
IDE185HD001-AD	Android Base Model	With Android OS
IDE185HD001-xx-HB	Brightness	High Brightness
IDE185HD001-xx-PT	Touch Screens	Projected Capacitive Touch Screen

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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)