

IV LCD Panel Monitor

4-1 LCD Panel Monitor Specifications

This LCD Panel Monitor is a 17" / 19" high-performance intelligent multi-scan TFT-LCD color monitor. By applying 8 bit digital data, 1280(H) x 1024(V), 16.2M-color (6Bit+FRC) images are displayed on the 17.0" diagonal screen. Input power voltage is 5.0V for LCD driving. It is designed to be compatible with all modes between 30 KHz and 80 KHz. (Engineering design 29-70 KHz). The microprocessor-based design was implemented with the user in mind, providing digital user controls for precision, auto-synchronization and auto-sizing for convenience and user-programmability for flexibility. The LCD panel specifications are following.

19" LCD panel specifications:

ITEM	Unit	SPECIFICATION
Active Area	[mm]	376.32(H) x 301.056(V)
Number of Pixels		1280(H) x 1024(V)
Pixel Pitch	[mm]	0.294(H) x 0.294(V)
Color Pixel Arrangement		RGB vertical stripe
Display Mode		Normally white
Number of Colors		16.7M (RGB 8-bit data)
Brightness	[cd /m ²]	300 cd /m ² @ 7 mA (Typ.)
Viewing Angle		170°(H) / 130°(V)
Contrast Ratio (Max)		700 : 1 (Typ)
Response Time (Total)	[msec]	16ms (Typ, on/off)
Power Consumption (VDD line + CCFL line)	[Watt]	27.5W (w/o Inverter, All black pattern)
Physical Size	[mm]	396(W)X324(H)X17.5(D) (Typ)
Module Weight	[g]	2500
Surface Treatment		Anti-glare, hard coating (3H)
Temperature Range		
Operating	[°C]	0 to +50
Storage (Shipping)	[°C]	-20 to +60

4-2 Activate the Monitor

Before starting the system, make sure to plug the VGA cable into to the video port of the mainboard to activate the monitor.