

# IL164XE05-R185

**1. General Features**

	Items	Specification	Unit	Note
<b>General</b>	Active Screen Size	16.8	inches	
	Display area	409.8x76.7	mm	
	Luminance	500	cd/m <sup>2</sup>	
	Contrast Ratio	1000:1		
	Outline Dimension	440(H) x 108(V) x 15(D)	mm	
	Source Input			
	Input Voltage		Vdc	
	Power Consumption	12	Watt	
	Weight	2.0	kg	
	Life Time	50000	Hrs	
	Operating Temperature	0 - 50	°C	
	Storage Temperature	-20 - 60	°C	
	Operating Humidity	10 - 90	%RH	
	Storage Humidity	10 - 90	%RH	
<b>Panel</b>	Pixel Format	1366 x 256	Pixels	
	Pixel Pitch	0.3 (H) x0.3 (W)	mm	
	Color Depth	16777216	Color	8-bit
	Viewing Angle	85/85/80/80 ( R/L/U/D )		CR>10
	Surface Treatment	Hard coating(3H) & Anti-Glare treatment of the front polarizer		
	input	LVDS (1 ch, 8-bit) , 30 pins		
	Backlight	WLED		

## 2. Connector

### 2.1 TFT LCD Module

The module using one LVDS receiver SN75LVDS82(Texas Instruments). LVDS is a differential signal technology for LCD interface and high speed data transfer device. LVDS transmitters shall be SN75LVDS83(negative edge sampling). The first LVDS port(RxOxxx) transmits odd pixels while the second LVDS port(RxExxx) transmits even pixels.

PIN #	SIGNAL	DESCRIPTION
1	NC	No contact (For AUO internal use)
2	NC	No contact (For AUO internal use)
3	NC	No contact (For AUO internal use)
4	GND	Power Ground
5	RXIN0-	Negative LVDS differential data input (0)
6	RXIN0+	Positive LVDS differential data input (0)
7	GND	Power Ground
8	RXIN1-	Negative LVDS differential data input (1)
9	RXIN1+	Positive LVDS differential data input (1)
10	GND	Power Ground
11	RXIN2-	Negative LVDS differential data input (2)
12	RXIN2+	Positive LVDS differential data input (2)
13	GND	Power Ground
14	RXCLKIN-	Negative LVDS differential clock input (clock)
15	RXCLKIN+	Positive LVDS differential data input (clock)
16	GND	Power Ground
17	RXIN3-	Negative LVDS differential data input (3)
18	RXIN3+	Positive LVDS differential data input (3)
19	GND	Power Ground
20	NC	No contact (For AUO internal use)
21	NC	No contact (For AUO internal use)
22	NC	No contact (For AUO internal use)
23	GND	Power Ground
24	GND	Power Ground
25	GND	Power Ground
26	VDD	+5V power supply
27	VDD	+5V power supply
28	VDD	+5V power supply
29	VDD	+5V power supply
30	VDD	+5V power supply

### Timing Characteristics

Basically, interface timing described here is not actual input timing of LCD module but close to output timing of SN75LVDS82DGG (Texas Instruments) or equivalent.

Signal	Item	Symbol	Min	Typ	Max	Unit
V-section	Period	Tv	788	808	1313	Th
	Active	Tdisp(v)	768	768	768	Th
	Blanking	Tblk(v)	20	40	545	Th
H-section	Period	Th	1432	1606	2047	Tclk
	Active	Tdisp(h)	1366	1366	1366	Tclk
	Blanking	Tblk(h)	66	240	681	Tclk
Clock	Period	Tclk	10.64	12.8	17.72	ns
	Frequency	Freq	55	78	90	MHz
Frame rate	Frame	F	50	60	76	Hz

**Note1** : DE mode only

**Note2** : Clock Frequency 90MHz(Max.)= 1416(H)\*847(V)\*75Hz

### 2.2 Backlight Unit:

PH2.0-6pin

Pin No.	Symbol	Description	note
1	VCC	Power supply voltage 12v	
2	VCC	Power supply voltage 12v	
3	ON/OFF	Output enable signal input 0~5V	
4	DIM	Dim signal input DC 0~5V	
5	GND	Power ground	
6	GND	Power ground	

### 3. Mechanical Characteristics

