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ACD-AU220-2255

PRODUCT DATA SHEET – PAGE 1 OF 2

22.0" WSXGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

01/21/2013

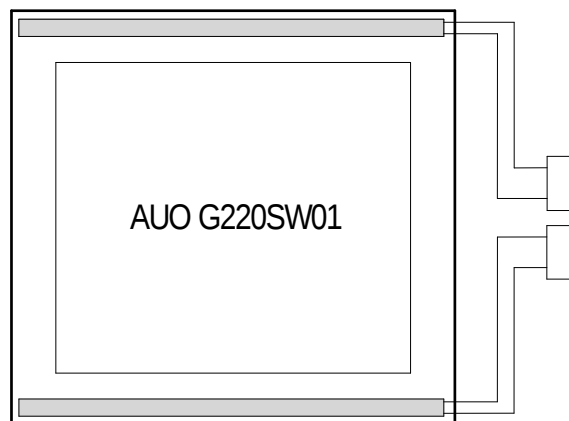
The ACD-AU220-2255 consists of the AUO G220SW01 V0 WSXGA TFT display modified with a high performance LED backlight. The resulting performance exceeds that of the standard CCFL equipped backlight by 2.0 to 1

Performance at given brightness levels

1000 cd/m² with 48.1 watts LED power

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals



LCD PANEL HIGHLIGHTS

22.0" TFT Active Matrix Color

473.76 (H) mm x 296.1 (V) mm viewable area

WSXGA 1680x3(RGB) x 1050 pixels

16.7M colors (6-bits + HiFRC)

1000:1 typical contrast ratio

For complete LCD specification (standard panel), refer to AUO datasheet G220SW01 V0

LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (Typically 11 inches long), allows simple interconnect with LED driver¹

Projected lifetime > 75,000 hours

Active fault protection keeps remaining LED's operating normally if one should ever fail

1000:1 or better dimming ratio, guaranteed¹

¹ For best power transfer and control, use ACI-E120230-2047 LED drivers. Do not set the driver output current (Ifwd) higher than the value specified in the Maximum Ratings table of this document. Please contact the factory for more specific use LED driver solutions if required.

MAXIMUM RATINGS

01/21/2013

Symbol	Parameter	Value	Unit
Top	Operating temperature of display (center of panel surface)	0 to +50	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-20 to +60	Deg-C
Tstg	Display storage temperature	-20 to +70	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	69	mA

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 57.5mA per LED bank, 4 banks per rail, 2 rails per display (LED rail ACR-1054-2072), Ta = +25Deg-C, LCD active

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1100	cd/m ²
X	White X coordinate			0.308		-
Y	White Y coordinate			0.362		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 57.5mA per LED bank, 4 banks per rail, 2 rails per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		94	105	116	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

