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ACD-AU121-2197

PRODUCT DATA SHEET – PAGE 1 OF 2

12.1" XGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

The ACD-AU121-2197 consists of the AUO G121XN01 V0 XGA TFT display modified with a high performance LED backlight.

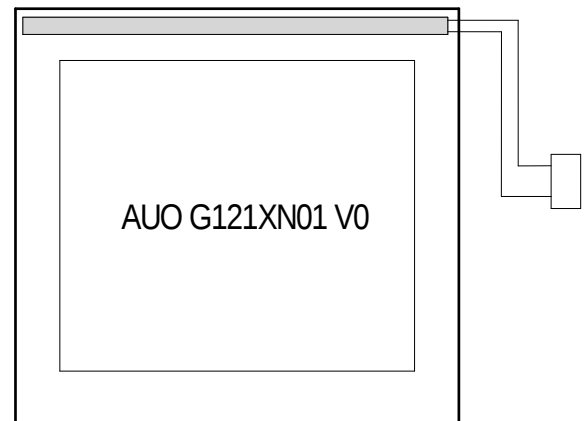
Performance at given brightness levels

1200 cd/m² with 9.9 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals

11/05/12



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-C170090-1979 LED driver. 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.

LCD PANEL HIGHLIGHTS

12.1" XGA TFT Active Matrix Color

245.76 (H) mm x 184.32 (V) mm viewable area

XGA 1024 x 768 pixels

16.2M / 262K colors

700:1 typical contrast ratio

For complete LCD specification (standard panel), refer to AUO datasheet G121XN01 V0

MAXIMUM RATINGS

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Symbol	Parameter	Value	Unit
Top	Operating temperature of display (center of panel surface)	-30 to +80	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +85	Deg-C
Tstg	Display storage temperature	-30 to +80	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	108.0	mA

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 90mA per LED bank, 1 bank per rail, 1 rail per display (LED rail ACR-1101-2188), Ta = +25Deg-C, LCD active

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		1080	1200	1320	cd/m ²
X	White X coordinate			0.282		-
Y	White Y coordinate			0.328		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 90mA per LED bank, 1 bank per rail, 1 rail per display (LED rail ACR-1101-2188), Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		99	110	121	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

