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ACD-AU133-3177

PRODUCT DATA SHEET

04/12/2022

13.3" FHD LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

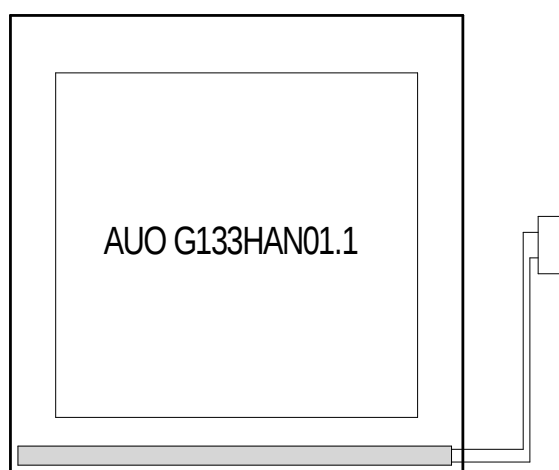
The ACD-AU133-3177 consists of the AUO G133HAN01.1 FHD TFT display modified with a high performance LED backlight.

Performance at given brightness levels

850 cd/m² with 14.05 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals



LCD PANEL HIGHLIGHTS

13.3" TFT Active Matrix Color

293.472 (H) mm x 165.078 (V) mm viewable area

309.70(W) mm x 184.30(H)mm x 9.6(D)mm physical size

FHD 1920 x 1080 pixels, 16.7M colors

800:1 typical contrast ratio

Display Mode Normally Black

For complete LCD specification (standard panel), refer to AUO G133HAN01.1 data sheet.

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

1000:1 or better dimming ratio, guaranteed¹

¹ For best power transfer and control, use ACI-C080180-3192 Standard LED driver. ACI-3198 Humisealed LED driver.

MAXIMUM RATINGS *

Symbol	Parameter	Value	Unit
Top ¹	Operating temperature of display (center of panel surface)	0 to +70	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +95	Deg-C
Tstg ¹	Display storage temperature	0 to +70	Deg-C
Ifwd	Maximum LED edge-light forward current (DC)	108	mA

* Maximum Ratings are those values beyond which damage to the driver may occur

¹ Per Manufacture's Specification

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 90mA per bank, LED rail ACR-0772-3183, 2 banks per rail, 1 rail per display, Ta = +25Deg-C, moving air (36.0 CFM), min 2hr soak

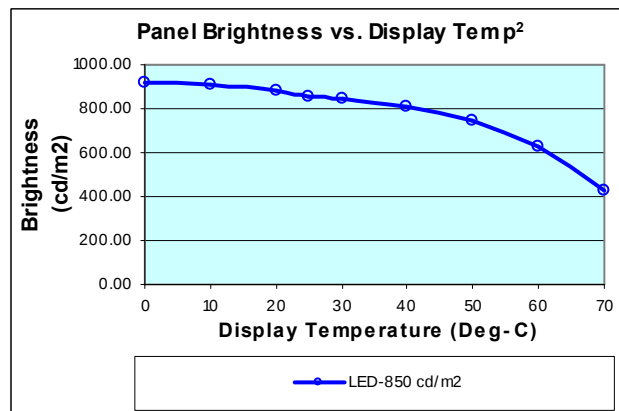
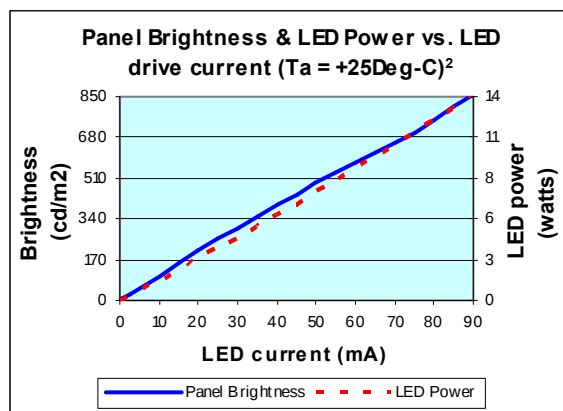
Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		680	850		cd/m ²
X	White X coordinate			0.322		-
Y	White Y coordinate			0.370		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 90mA per bank, 2 banks per rail, 1 rail per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		70	78	86	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS



² Moving air (36.0 CFM)