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ACD-2472

PRODUCT DATA SHEET – PAGE 1 OF 2

12.1" XGA LED BACKLIT TFT DISPLAY

Sunlight Readability/1000:1 dimming/Cool operation

GENERAL DESCRIPTION

10/22/2014

The ACD-2472 consists of the NEC NL10276BC24-21F XGA TFT display modified with a high performance LED backlight.

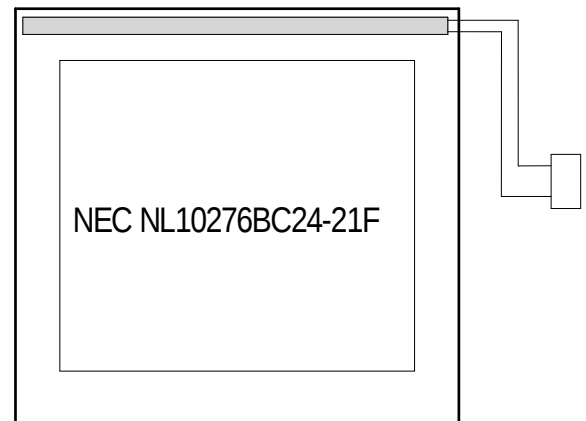
Customer Consigned Panel

Performance at given brightness levels

1500 cd/m² with 11.9 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals



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-2473 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, 16.7M colors

900:1 typical contrast ratio

40% color gamut(NTSC color space)

For complete LCD specification (standard panel), refer to NEC datasheet NL10276BC24-21F

MAXIMUM RATINGS

10/22/2014

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)	84.0	mA

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 70mA per LED bank, 2 bank per rail, 1 rail per display (LED rail ACR-0932-2407), Ta = +25Deg-C, LCD powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		1350	1500	1650	cd/m ²
X	White X coordinate			0.263		-
Y	White Y coordinate			0.287		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 70mA per LED bank, 2 bank per rail, 1 rail per display (LED rail ACR-0932-2407), Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		76	84	92	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

