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ACD-NC121-2406

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-NC121-2406 consists of the NEC NL10276BC24-21F XGA TFT display modified with a high performance LED backlight.

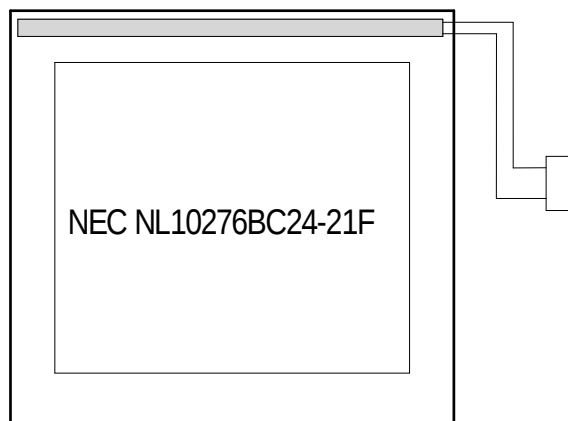
Performance at given brightness levels

1500 cd/m² with 11.9 watts LED power

Display outline identical to standard LED equipped panel

For many applications, satisfies sunlight readability goals

03/16/2021



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*

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 one of the following LED drivers:

ACI-3118 (Conformal Coated with Humiseal 1B73)

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)	84	mA

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 70mA per LED bank, 2 banks per rail, 1 rail per display (LED rail ACR-0932-3117), Ta = +25Deg-C, LCD active

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 banks per rail, 1 rail per display (LED rail ACR-0932-3117), Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		78	86	94	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

