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ACD-NC104-2424

PRODUCT DATA SHEET

10/31/13

10.4" XGA LED BACKLIT TFT DISPLAY

Sunlight Readability/Cool Operation

GENERAL DESCRIPTION

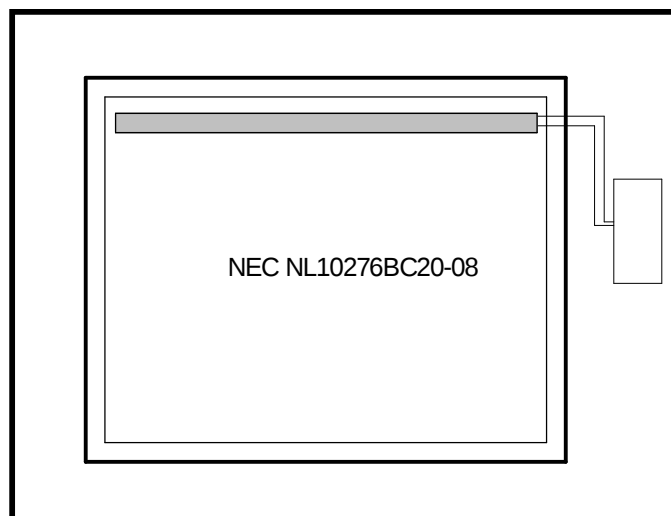
The ACD-NC104-2424 consists of the NEC NL10276BC20-08 XGA TFT display modified with a high-performance LED backlight.

Performance at given brightness level

1000 cd/m² with 7.9 Watts LED Power

Display outline identical to standard CCFL equipped panel.

For many applications, satisfies sunlight readability goals.



LCD PANEL HIGHLIGHTS

10.4" TFT Active Matrix Color

210.432mm (H) x 157.824mm (V) Viewable Area

XGA 1024 x 768 Pixels

262,144 Colors

700:1 Typical Contrast Ratio

40% Color Gamut (NTSC Color Space)

For complete LCD specifications (standard panel), refer to NEC datasheet NL10276BC20-08.

LED BACKLIGHT FEATURES

White LED edge-light rails

Two-wire connection (Typically 11 inches in length), allows easy interconnect with LED driver.

Projected lifetime > 75,000 hours

1000:1 or better dimming ratio, guaranteed.

1 For best power transfer and control, use ACI-C040330-2425 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.

MAXIMUM RATINGS*

Symbol	Parameter	Value	Unit
Top	Operating Temperature of Display (Center of Display Surface)	0 to +55	°C
Tled	Operating Temperature of LED Edge Light (Light Rail Contact)	-30 to +85	°C
Tstg	Display Storage Temperature	-20 to +60	°C
Ifwd	LED Forward Current	99.0	mADC

*Maximum Ratings are those values beyond which damage may occur.

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 82.5mA (LED Rail ACR-2423, 4 banks per rail, 1 rail per display), Ta = +25°C, LCD powered

Symbol	Parameter	Test Condition	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1100	cd/m ²
X	White X Coordinate			0.275		-
Y	White Y Coordinate			0.336		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 82.5mA, Top = +25°C

Symbol	Parameter	Test Conditions	Min	Nom	Max	Unit
Vfwd	LED Rail Forward Voltage Drop		22	24	26	VDC

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

