



397 Route 281 – P.O. Box 1175
Tully, New York 13159-1175
Phone: 315 696-6676
Fax: 315 696 9923
Email: sales@acipower.com
www.acipower.com

ACD-NC104-1899

PRODUCT DATA SHEET

03/17/10

10.4" XGA LED BACKLIT TFT DISPLAY

Sunlight Readability/Cool Operation

GENERAL DESCRIPTION

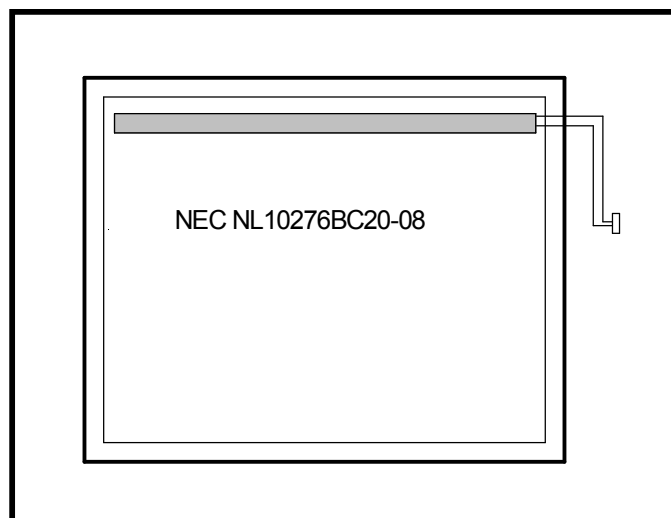
The ACD-NC104-1899 consists of the NEC NL10276BC20-08 XGA TFT display modified with a high-performance LED backlight. The resulting performance exceeds that of the standard CCFL equipped backlight by 2.2 to 1.

Performance at given brightness level

1000 cd/m² with 7.2 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

210.4mm (H) x 157.8mm (V) Viewable Area

XGA 1024 x 768 Pixels and 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 8 inches in length), allows easy interconnect with LED driver.

Projected lifetime > 75,000 hours

Active fault protection keeps remaining LEDs operating normally, if one should ever fail.

5000:1 or better dimming ratio, guaranteed.

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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)	-20 to +75	°C
Tstg	Display Storage Temperature	-20 to +60	°C
Ifwd	LED Forward Current	75	mADC

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

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 60mA (LED Rail ACR-0602-1897, 2 banks/rail, 1 rail/display), Ta = +25°C, LCD un-powered

Symbol	Parameter	Test Condition	Min	Typ	Max	Unit
Bp	Panel Brightness	After 1 hour stabilization	900	1000	1100	cd/m ²
X	White X Coordinate			0.339		-
Y	White Y Coordinate			0.384		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 60mA, Top = +25°C

Symbol	Parameter	Test Conditions	Min	Nom	Max	Unit
Vfwd	LED Rail Forward Voltage Drop		54	60	66	VDC

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

