



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-NC084-1803

PRODUCT DATA SHEET – PAGE 1 OF 2

8.4" XGA LED BACKLIT TFT DISPLAY

Sunlight Readability/Cool operation

GENERAL DESCRIPTION

The ACD-NC084-1803 consists of the NEC NL10276BC16-01 XGA TFT display modified with a high performance LED backlight. The resulting performance exceeds that of the standard CCFL equipped backlight by 2.7 to 1

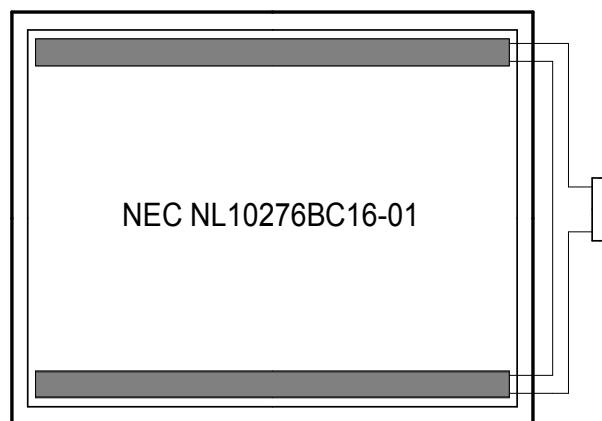
Performance at given brightness levels

1000 cd/m² with 10.5 watts LED power

Display outline identical to standard CCFL equipped panel

For many applications, satisfies sunlight readability goals

03/17/10



LED BACKLIGHT FEATURES

White LED edge-light rail

Two wire connection (Typically 8 inches long), allows simple 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

LCD PANEL HIGHLIGHTS

8.4" TFT Active Matrix Color

170.4 (H) mm x 127.8 (V) mm viewable area

XGA 1024 x 768 pixels, 262,144 or 16,777,216 colors

400:1 typical contrast ratio

72% color gamut (NTSC color space)

For complete LCD specification (standard panel), refer to NEC datasheet NL10276BC16-01

03/17/10

MAXIMUM RATINGS*

Symbol	Parameter	Value	Unit
Top	Operating temperature of display (center of panel surface)	0 to +55	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	0 to +60	Deg-C
Tstg	Display storage temperature	-20 to +60	Deg-C
Ifwd	LED forward current	125	mADC

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

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 88mA (LED rail ACR-1201-1839 Dual rail), Ta = +25Deg-C, LCD active (full white)

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		900	1000	1100	cd/m ²
X	White X coordinate			0.297		-
Y	White Y coordinate			0.355		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 88mA, Top = +25Deg-C, per rail

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		108	120	132	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

