



**397 Route 281
Tully, New York 13159
Phone: 315 696-6676
Fax: 315 696 9923
Email: sales@acipower.com
www.acipower.com**

ACD-NC084-2621

PRODUCT DATA SHEET – PAGE 1 OF 2

8.4" XGA LED BACKLIT TFT DISPLAY

1000:1 dimming/Cool operation

GENERAL DESCRIPTION

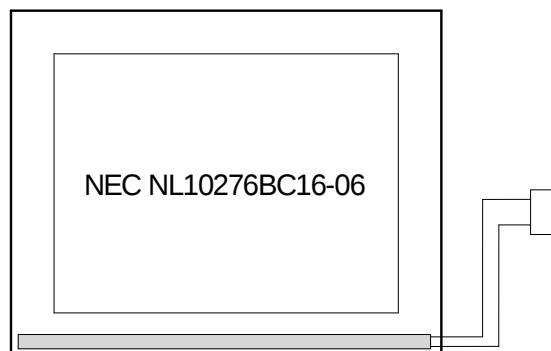
The ACD-NC084-2621 consists of the NEC NL10276BC-16-06 XGA TFT display modified with a high performance LED backlight.

Performance at given brightness levels

900 cd/m² with 8.6 watts LED power

Display outline identical to standard LED equipped panel

2/05/2015



LCD PANEL HIGHLIGHTS

8.4" TFT Active Matrix Color

170.496 (H) mm x 127.872 (V) mm viewable area

XGA 1024 x 768 pixels

262k/16.7M colors

600:1 typical contrast ratio

Display Mode Normally Black

For complete LCD specification (standard panel), refer to NEC datasheet NL10276BC16-06

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

1000:1 or better dimming ratio, guaranteed¹

¹ For best power transfer and control, use ACI-C120100-2631 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.

MAXIMUM RATINGS*

2/05/2015

Symbol	Parameter	Value	Unit
Top	Operating temperature of display (center of panel surface)	-10 to +70	Deg-C
Tled	Operating temperature of LED edge light (light rail contact)	-30 to +80	Deg-C
Tstg	Display storage temperature	-30 to +80	Deg-C
Ifwd	LED forward current (DC)	120	mA

*Maximum Ratings are those values beyond which damage may occur

PANEL/BACKLIGHT OPTICAL CHARACTERISTICS

Ifwd = 100mA per bank, LED rail ACR-2620, 1 bank per rail, 1 rail per display), Ta = +25Deg-C, LCD powered

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Bp	Panel Brightness		810	900	990	cd/m ²
X	White X coordinate			0.266		-
Y	White Y coordinate			0.292		-

LED EDGE-LIGHT ELECTRICAL CHARACTERISTICS

Ifwd = 100mA per LED bank, 1 bank per rail, 1 rail per display, Top = +25Deg-C

Symbol	Parameter	Test Conditions	Min	Typ	Max	Unit
Vfwd	LED rail forward voltage drop		77	86	95	Vdc

TYPICAL LCD/LED BACKLIGHT PERFORMANCE GRAPHS

