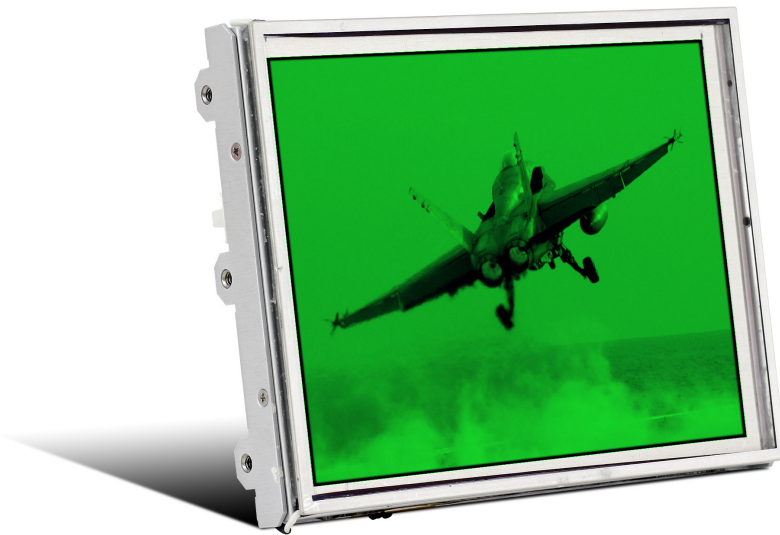
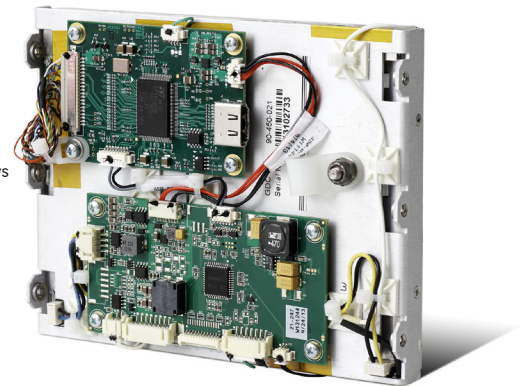


91-065-009-00-B

Enhanced NVIS-Compatible Sunlight Readable 6.5" Display Head Assembly
with Optically Bonded Projected Capacitive Touch Screen and EMI Filter



6.5" Display Head Assembly shown with optional HDMI video controller board and overlays



General Digital has designed the NEC NL10276BC13-01C 6.5" XGA display for integration of a MIL-STD-3009 Class B Type II NVIS (NVG) Switchable Backlight. This NEC display has been customized specifically for use in Military and Government applications.

Please feel welcome to consult with a Sales Engineer for additional information at 800.952.2535.

FEATURES

- > 6.5 inch, 1024 X 768 Resolution
- > 6:1 Sunlight Readable Contrast
- > Highly Efficient LED Backlight
- > Sunlight Readable LED Backlight Produces 1000+ nits
- > Optical Bonding (Display Enhancement)
- > Projected Capacitive Touch Screen
- > EMI Filter
- > LVDS (Low Voltage Data Signal)
- > Selectable 8-bit or 6-bit Digital Signals of RGB
- > Viewing Angle: R/L 80°/80°, U/D 80°/60°
- > Operating Temperature: -20° C~70° C
- > Storage Temperature: -30° C~80° C

OPTIONS

- > Custom Bezels, Enclosures
- > HDMI Video Controller Board
- > Antireflective or Antiglare Protective Glass Overlay
- > Various Overlays (Heaters, Vandal Shields, More)
- > LED Backlight Controllers

GENERAL SPECIFICATIONS [1, 2]

Backlight	Sunlight Readable, NVIS Compatible, Dual Mode, High Efficiency LED Backlight (General Digital manufactured)
Luminance (dark room) @ Power	3500 cd/m ² @ 9.23 W [3] 2000 cd/m ² @ 5.64 W 1260 cd/m ² @ 3.24 W [4] 1000 cd/m ² @ 2.25 W 650 cd/m ² @ 1.60 W [5]
NVIS-B Radiance	Compliant (see NVIS data below)
NVIS White	Compliant (see NVIS data below)
Module Size (mm)	153.0 (W) x 118.0 (H) x 9.0 (D)
Display Area (mm)	132.096 (H) x 99.072 (V)
Display Size (diagonal)	6.5 inches
Drive System	A-Si TFT Active Matrix
Display Color	16.7 Million Colors
Pixels	1024 (H) x 768 (V)
Pixel Arrangement	RGB Vertical Stripe
Dot Pitch (mm)	0.043 (H) x 0.129 (V)
Viewing Angle	Horizontal: ± 80°; Vertical: + 80°, -60° (at the contrast ratio > 10:1)
Polarizer Surface	Clear + Antireflection
Polarizer Pencil-Hardness	2H (minimum)
Color Gamut (against NTSC color space)	36% typical (at LCD panel center)
Response Time	Ton + Toff (10–90%); 25 ms (typical)
Signal System [8-bit Digital Signals for Data of RGB Colors, Dot Clock (CLK), Data Enable (DE)]	LVDS 1 Port
Power Supply Voltage	LCD Panel Signal Processing Board: 3.3 V
Storage Temperature	-30°–80° C
Operating Temperature	-20°–70° C
Weight	170 g

1 Specifications other than Luminance are based on the manufacturer data sheet.

2 Available with optional NVIS capability.

3 Rail temperature of 50° C.

4 For customer comparison: At OEM power consumption, the modified display achieves greater brightness than the unmodified OEM display.

5 For customer comparison: At OEM brightness, the modified display consumes less power than the unmodified OEM display.

CONTRAST (Per MIL-L-85762-A) with Projected Capacitive Touch Screen & EMI Filter [6]

Luminance (dark room)	Contrast (dark room)	Weber Contrast (sunlight conditions)	Weber Class
3500 cd/m ²	577:1	8.23	5
2000 cd/m ²	552:1	5.41	5
1200 cd/m ²	614:1	3.16	4
1000 cd/m ²	645:1	2.37	3
650 cd/m ²	670:1	1.55	2

6 All data obtained while driven by a Kikisui PAD35-10L power supply. Measurements were taken with a Minolta CS-100 photometer.

NVIS nIRb COLOR	OEM Antireflective Overlay	Projected Capacitive Touch Screen & EMI Filter
U'	0.197	0.198
V'	0.506	0.506
Error Radius (max. passing = 0.04)	0.020	0.020

NVIS RADIANCE B	OEM Antireflective Overlay
NVIS Radiance B (max. passing = 2.2 nW/cm ² /sr)	0.828 nW/cm ² /sr (Compliant)