

OPTREX LCD Modules



LCD Displays

Optrex

For more Optrex Graphic Modules and Optrex Character Modules, please see our full Optrex offering at www.mouser.com/optrex.

TFT LCD MODULES

Optrex America's TFT (thin film transistor) flat panel displays are rugged, high performance modules designed for the most demanding non-PC applications. They deliver best-in-class, front-of-screen performance with wide viewing angles, powerful backlights and exceptionally high contrast, color saturation and luminance for a range of non-PC applications. These modules are exceptionally rugged – and can operate reliably over wide temperature ranges.

Optrex America's TFT modules are ideally suited for the requirements of the industrial, medical, multimedia and instrumentation markets. Applications include diagnostic equipment, industrial control equipment, POS displays, kiosks, ATMs, and amusement/entertainment systems.



| MOUSER STOCK NO. | Optrex Part No. | Size | Dot Format | Outline Dimension WxHxD (mm) | Interface | Luminance | Contrast Ratio | Vertical Viewing Angle | Horizontal Viewing Angle | Power Consumption | Operating Temp. (°C) | Price Each |
|--------------------------|-----------------------|------|--------------|------------------------------|-----------|-----------|----------------|------------------------|--------------------------|-------------------|----------------------|---------------|
| 805-T51513D104JUC | T-51513D104JU-FW-A-AC | 10.4 | 640xRGBx480 | 243.0x181.6x12.2 | TTL | 430 | 500:1 | -45/55 | ±60 | 6.8W | -20 to 70 | 400.40 |
| 805-T51512D121JB | T-51512D121J-FW-A-AB | 12.1 | 800xRGBx600 | 280.0x210.0x12.0 | TTL | 400 | 500:1 | -50/40 | ±60 | 7.6W | -20 to 70 | 418.60 |
| 805-T51756D121JA | T-51756D121J-FW-A-AA | 12.1 | 1024xRGBx768 | 280.0x210.0x12.0 | LVDS | 320 | 550:1 | -50/40 | ±60 | 8.0W | -20 to 70 | 473.20 |

LCD TOOLKITS™

Optrex, the LCD Total Solution Provider, has introduced its new LCD ToolKIT™, which provides a convenient kit solution that speeds design and saves engineering and procurement time for developers of products using flat panel displays. Optrex's LCD ToolKIT™ contains everything you need to operate the included TFT display right out of the box. Supports VGA, composite video, and S-video interfaces. Included in the LCD ToolKIT are: LCD panel; TFT controller board with on-screen display board; backlight inverter board; inverter power cable; 12V DC power supply; power supply AC line cord; VGA (analog RGB) cable; 3-ft. video input cable; and a Quick Set-up and document CD-ROM. IT'S ALL IN THE BOX!

Kits support VGA (Analog RGB), composite video, and S-video interfaces



Kit Includes:

- TFT Panel
- TFT Controller Board with On-Screen Display (OSD) Board
- Backlight Inverter Board
- Inverter Power Cable
- Power Supply AC Line Cord
- VGA (Analog RGB) Cable
- 3 ft. Video Input Cable (S-Video/Composite)
- LCD-to-controller-board interface cable
- CD-ROM with Quick Set-Up Guide and controller manual

| MOUSER STOCK NO. | Optrex Part No. | LCD Size | Resolution | Price Each |
|---------------------|-----------------|----------|----------------|---------------|
| 805-TK104V01 | TK104V01 | 10.4" | 640 x 480 VGA | 665.00 |
| 805-TK084X01 | TK084X01 | 8.4" | 1024 x 768 XGA | 728.00 |
| 805-TK084V01 | TK084V01 | 8.4" | 640 x 480 VGA | 658.53 |

GRAPHIC MODULES

Optrex color and monochrome STN (super twisted nematic) graphic modules offer a wide range of sizes and display formats to satisfy virtually any application. Extensive array of color/background combinations, with high brightness, high contrast, low power consumption, and LED or CCFL backlights. New Highly Reflective models feature crisp, clear black graphics on a silvery, "winter white" backgrounds, providing exceptional clarity, sharpness and readability in all types of ambient lighting conditions. Serial or parallel interface options and economical Chip-on-Glass (COG) construction available.



| MOUSER STOCK NO. | Optrex Part No. | Size | LCD Mode | Dot Format | Dot Pitch | Outline Dimension WxHxD (mm) | Viewing Area WxH (mm) | Backlight | Luminance | Contrast Ratio | Operating Temp. (°C) | Price Each | |
|--|----------------------|------|---------------|-------------|-----------|------------------------------|-----------------------|------------|-----------|----------------|----------------------|---------------|---------------|
| | | | | | | | | | | | | 1 | 10 |
| Color Transmissive Graphic Displays | | | | | | | | | | | | | |
| 805-F51373GNCFWAH | F-51373GNC-FW-AH | 3.8 | Color | 240xRGBx320 | .24x.24 | 73.0x94.4x7.3 | 59.0x80.3 | CCFL | 70 | 40:1 | 0 to 50 | 99.15 | 79.32 |
| 805-F51900NCUFWACN**† | F-51900NCU-FW-ACN | 5.7 | Color | 320xRGBx240 | .36x.36 | 168.0x111.0x9.4 | 120.0x90.0 | CCFL | 100 | 25:1 | 0 to 50 | 142.50 | 114.00 |
| Monochrome Transmissive Graphic Displays | | | | | | | | | | | | | |
| 805-F51553GNBJAEN | F-51553GNBJ-LW-AEN | 2.8 | Blue/White | 128x64 | .50x.50 | 89.7x49.8x11.8 | 66.8x35.5 | White LED | 100 | 8:1 | -20 to 70 | 27.45 | 21.96 |
| 805-F51852GNFQJLBABN | F-51852GNFQJ-LB-ABN | 2.8 | Black/Blue | 128x64 | .50x.50 | 89.7x49.8x11.8 | 69.0x36.5 | Blue LED | 100 | 60:1 | -20 to 70 | 36.80 | 29.44 |
| 805-F51852GNFQJLGACN | F-51852GNFQJ-LG-ACN | 2.8 | Black/Green | 128x64 | .50x.50 | 89.7x49.8x11.8 | 69.0x36.5 | Green LED | 100 | 60:1 | -20 to 70 | 33.02 | 26.42 |
| 805-F51852GNFQJLYADN | F-51852GNFQJ-LY-ADN | 2.8 | Black/Yellow | 128x64 | .50x.50 | 89.7x49.8x11.8 | 69.0x36.5 | Yellow LED | 100 | 60:1 | -20 to 70 | 33.02 | 26.42 |
| 805-F51852GNFQJLRAGN | F-51852GNFQJ-LR-AGN | 2.8 | Black/Red | 128x64 | .50x.50 | 89.7x49.8x11.8 | 69.0x36.5 | Red LED | 100 | 60:1 | -20 to 70 | 36.80 | 29.44 |
| 805-F51852GNFQHLWAFN | F-51852GNFQH-LW-AFN | 2.8 | Black/White | 128x64 | .50x.50 | 89.7x49.8x11.8 | 69.0x36.5 | White LED | 100 | 60:1 | -30 to 80 | 36.80 | 29.44 |
| 805-F51477GNBAD | F-51477GNB-FW-AD | 4.7 | Neutral/Blue | 320x240 | .30x.30 | 129.4x94.0x10.0 | 99.9x77.0 | CCFL | 400 | 4.5:1 | 0 to 50 | 76.48 | 61.18 |
| 805-F51477GNFAG | F-51477GNF-LW-AG | 4.7 | Black/White | 320x240 | .30x.30 | 129.4x94.0x8.8 | 99.85x77.0 | White LED | 280 | 20:1 | 0 to 50 | 96.84 | 90.79 |
| 805-DMF5005NYAKE | DMF-5005NY-LY-AKE | 5.2 | Yell/Dk. Blue | 240x64 | .53x.53 | 180.0x65.0x17.6 | 132.0x39.0 | LED | 45 | 7:1 | 0 to 50 | 76.33 | 61.06 |
| 805-F51405GNBAJ | F-51405GNB-LW-AJ | 5.2 | Blue/White | 240x64 | .53x.53 | 149.5x51.7x9.8 | 130.2x37.6 | LED | 400 | 5:1 | 0 to 50 | 78.43 | 62.74 |
| 805-F51851GNFQJLWAAAN | F-51851GNFQJ-LW-AAAN | 5.2 | Black/White | 240x64 | .53x.53 | 135.2x51.7x9.8 | 130.2x37.6 | White LED | 100*† | 60:1 | -20 to 70 | 73.82 | 59.05 |
| 805-F51851GNFQJLBABN | F-51851GNFQJ-LB-ABN | 5.2 | Black/Blue | 240x64 | .53x.53 | 135.2x51.7x9.8 | 130.2x37.6 | Blue LED | 100 | 60:1 | -20 to 70 | 73.82 | 59.05 |
| 805-F51851GNFQJLGACN | F-51851GNFQJ-LG-ACN | 5.2 | Black/Green | 240x64 | .53x.53 | 135.2x51.7x9.8 | 130.2x37.6 | Green LED | 100 | 60:1 | -20 to 70 | 73.82 | 59.05 |
| Monochrome Transflective Graphic Displays | | | | | | | | | | | | | |
| 805-F51852GNFJSLWAAEN | F-51852GNFJ-SLW-AEN | 2.8 | Black/Wint.W | 128x64 | .50x.50 | 89.7x49.8x11.8 | 69.0x36.5 | LED | 40 | 4.5:1 | -20 to 70 | 27.99 | 22.39 |
| 805-F51854GNFJSLWABN | F-51854GNFJ-SLW-ABN | 4.7 | Black/Wint.W | 160x128 | .58x.58 | 129.0x102.0x13.5 | 108.6x82.55 | LED | 40 | 4.5:1 | -20 to 70 | 102.51 | 82.00 |
| 805-F51851GNFJSLWAAEN | F-51851GNFJ-SLW-AEN | 5.2 | Black/Wint.W | 240x64 | .53x.53 | 135.2x51.7x9.8 | 130.2x37.6 | LED | 40 | 4.5:1 | -20 to 70 | 70.45 | 56.36 |

* At backlight surface
 ** Includes touch panel
 † HR-Highly Reflective Background-Winter White (Wint.W)

