

OPTREX LCD Modules

RoHS Compliant This product is RoHS compliant.



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.	Size	Resolution	Outline Dimension WxHxD (mm)	Back Light	Interface	Viewing Angle	Power	Operating Temp. (°C)	Price Each			
									1	5	10	50
805-T51512D121JB	12.1"	800xRGBx600	280 x 210 x 12	White CCFL	—	6:00	5V	-20 to 70	360.17	344.28	316.36	292.64
805-T51863D150JFWAAD	15"	1024xRGBx770	326 x 255 x 15.7	White CCFL	—	6:00	5V	-20 to 70	644.98	616.53	566.54	524.05

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	722.65
805-TK084V01	TK084V01	8.4"	640 x 480 VGA	768.19

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.

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



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	5
Monochrome Transmissive Graphic Displays													
805-F51553GNBJAEN	F-51553GNBJ-LW-AEN	2.8	Blue / White	128 x 64	.50 x .50	89.7x49.8x11.8	66.8 x 35.5	White LED	100	8:1	-20 to 70	18.48	18.10
805-F51852GNFQJLBABN	F-51852GNFQJ-LB-ABN	2.8	Black / Blue	128 x 64	.50 x .50	89.7x49.8x11.8	69.0 x 36.5	Blue LED	100	60:1	-20 to 70	32.69	31.25
805-F51852GNFQJLGCACN	F-51852GNFQJ-LG-ACN	2.8	Black / Green	128 x 64	.50 x .50	89.7x49.8x11.8	69.0 x 36.5	Green LED	100	60:1	-20 to 70	28.86	27.59
805-F51852GNFQJLYADN	F-51852GNFQJ-LY-ADN	2.8	Black / Yellow	128 x 64	.50 x .50	89.7x49.8x11.8	69.0 x 36.5	Yellow LED	100	60:1	-20 to 70	29.77	28.46
805-F51852GNFQJLRAGN	F-51852GNFQJ-LR-AGN	2.8	Black / Red	128 x 64	.50 x .50	89.7x49.8x11.8	69.0 x 36.5	Red LED	100	60:1	-20 to 70	29.40	28.10
805-F51852GNFQHLWAFN	F-51852GNFQH-LW-AFN	2.8	Black / White	128 x 64	.50 x .50	89.7x49.8x11.8	69.0 x 36.5	White LED	100	60:1	-30 to 80	30.71	29.35
805-F51851GNFQJLGCACN	F-51851GNFQJ-LG-ACN	5.2	Black / Green	240 x 64	.53 x .53	135.2x51.7x9.8	130.2 x 37.6	Green LED	100	60:1	-20 to 70	53.35	51.00
Monochrome Transflective Graphic Displays													
805-F51852GNFJSLWAEN	F-51852GNFJ-SLW-AEN	2.8	Blck/Wint.W†	128 x 64	.50 x .50	89.7x49.8x11.8	69.0 x 36.5	LED	40	4.5:1	-20 to 70	24.88	23.78
805-F51852GNFJSLWAJN	F-51852GNFJ-SLW-AJN	2.8	Blck/Wint.W†	128 x 64	.50 x .50	89.7x49.8x11.8	69.0 x 36.5	White LED	48	4.5:1	-20 to 70	20.29	19.40
805-F51851GNFJSLWAEN	F-51851GNFJ-SLW-AEN	5.2	Blck/Wint.W†	240 x 64	.53 x .53	135.2x51.7x9.8	130.2 x 37.6	LED	40*	4.5:1	-20 to 70	40.29	38.51

CHARACTER LCD MODULES

Optrex offers the broadest range of monochrome character LCD modules in a wide range of dot pixel formats and color/background combinations in industry standard configurations. High contrast, wide operating temperature range, low operating current, and more luminance per watt. Positive (transflective) types and negative (transmissive) types utilizing Optrex's High Performance Color technology are available.

New Highly Reflective models feature crisp, clear black characters on a silvery, "Winter White" background, providing exceptional clarity, sharpness and readability in all types of ambient lighting conditions. If you need a monochrome character LCD for your information display, Optrex has the right one for your application.



- * At backlight surface
- † HR-Highly Reflective Background

MOUSER STOCK NO.	Optrex Part No.	Character Format	LCD Mode	Dot Format	Outline Dimension WxHxD (mm)	Viewing Area	Backlight	Luminance*	Contrast Ratio	Operating Temp (°C)	Price Each			
											1	5	10	100
Transmissive Character Displays														
805-51848NFQJLWAAN	C-51848NFQJ-LW-AAN	16 x 2	Black / White	5x8	122x44x14.6	99.6x24.5	White LED	70	60:1	-20 to 70	29.57	26.62	23.84	22.81
805-51848NFQJLGCACN	C-51848NFQJ-LG-ACN	16 x 2	Black / Green	5x8	122x44x14.6	99.6x24.5	Green LED	70	60:1	-20 to 70	30.87	27.78	24.88	23.81
805-C51505NFQJAJN	C-51505NFQJ-LB-AJN	20 x 2	Neutral / Blue	5x8	116x37x15.6	83x18.6	Blue LED	38	80:1	-20 to 70	23.50	21.15	18.94	18.13
805-51505NFQJLA	C-51505NFQJ-LW-ALN	20 x 2	Color	5x8	116x37x15.6	83x18.6	White LED	125	80:1	-20 to 70	23.89	21.50	19.25	18.43
805-DMC20481LYBAE	DMC-20481NY-LY-BAE-BKN	20 x 4	Yellow	5x8	98.5x61x15.6	76x25.2	Yw/GrnLED	60	60:1	-20 to 70	29.69	26.72	23.93	22.90
805-51847NFQJLWAAN	C-51847NFQJ-LW-AAN	20 x 4	Black / White	5x8	98.5x61x15.6	76x25.2	White LED	70	60:1	-20 to 70	27.20	24.48	21.93	20.99
805-51847NFQJLGCACN	C-51847NFQJ-LG-ACN	20 x 4	Black / Green	5x8	98.5x61x15.6	76x25.2	Green LED	70	60:1	-20 to 70	30.91	27.82	24.91	23.84
805-51850NFQJLGCACN	C-51850NFQJ-LG-ACN	40 x 2	Black / Green	5x8	182x34.5x15.1	153.5x17.5	Green LED	70	60:1	-20 to 70	40.26	36.23	32.45	31.06
805-51849NFQJLWAAN	C-51849NFQJ-LW-AAN	40 x 4	Black / White	5x8	190x54x14.6	147x29.5	White LED	70	60:1	-20 to 70	59.98	53.98	48.34	46.27
Transflective Character Displays														
805-51848NFJSLWADN	C-51848NFJ-SLW-ADN	16 x 2	Winter White/Black†	5x8	122x44x14.6	99.6x24.5	LED	40	5:1	-20 to 70	23.15	20.83	18.66	17.86
805-51505NFJSLWAIN	C-51505NFJ-SLW-AIN	20 x 2	Black / White	5x8	116x37x15.6	83x18.6	White LED	125	5:1	-20 to 70	20.83	18.75	16.79	16.07
805-51847NFJSLWADN	C-51847NFJ-SLW-ADN	20 x 4	Winter White/Black†	5x8	98.5x61x15.6	76x25.2	LED	40	5:1	-20 to 70	25.98	23.38	20.94	20.04
805-51850NFJSLWADN	C-51850NFJ-SLW-ADN	40 x 2	Winter White/Black†	5x8	182x34.5x15.1	153.5x17.5	LED	40	5:1	-20 to 70	37.94	34.15	30.58	29.27
805-51849NFJSLWADN	C-51849NFJ-SLW-ADN	40 x 4	Winter White/Black†	5x8	190x54x14.6	147x29.5	LED	40	5:1	-20 to 70	53.09	47.78	42.79	40.96

