



Optrex 6.5-inch Color VGA TFT LCD Modules

Outstanding Front-of-Screen Performance; New Anti-Reflective Surface Treatment

Optrex's new T-51750 Series 6.5-inch diagonal color TFT LCD modules with VGA resolution offer a range of new features – including an ultra-slim outline, outstanding front-of-screen performance, economical COG construction and Optrex's new built-in Anti-Reflective (AR) surface treatment on the front polarizer for high-ambient-light readability. The AR Surface Treatment provides excellent legibility and eliminates glare – with no decrease in luminance or contrast, and no increase in heat or backlight power consumption – for high-ambient-light environments.

These high-reliability modules provide the ideal solution for non-PC applications requiring a high-resolution, mid-size flat panel display – even one that must perform in high-brightness outdoor environments. They offer a luminance of 400 nits and a 300:1 contrast ratio, with a wide viewing angle and an exceptionally slim, symmetrical outline that measures a compact 158.0 mm W x 120.36 mm H x 7.0 mm D (11.55 mm, including component height). Standard features include economical chip-on-glass (COG) construction, low power consumption, and AGLR (Anti-Glare, Low Reflective) coating (P/N T-51750GD065J-FW-AA) or new AR (Anti-Reflective) Surface Treatment (P/N T-51750GD065J-FW-AB).

Applications

Optrex's T-51750 6.5-inch VGA TFT modules are ideal for applications such as medical diagnostic, test and measurement, marine/GPS, home appliance, office equipment, avionics and automotive, providing a high-performance and cost-effective mid-size flat panel display solution for a wide range of requirements. Modules with the Anti-Reflective (AR) surface treatment can be used in a wide range of applications with high-ambient-light conditions, including outdoor environments.

Features

- Best-in-class front-of-screen performance
- Rugged construction for high reliability
- Ultra-slim, symmetrical profile; lightweight
- Economical chip-on-glass construction
- 260K colors
- Standard AGLR (Anti-Glare, Low Reflective) coating (P/N T-51750GD065J-FW-AA)
- New AR (Anti-Reflective) surface treatment (P/N T-51750GD065J-FW-AB)
- Reverse scan capability
- 4.8 W power consumption
- 300:1 contrast ratio



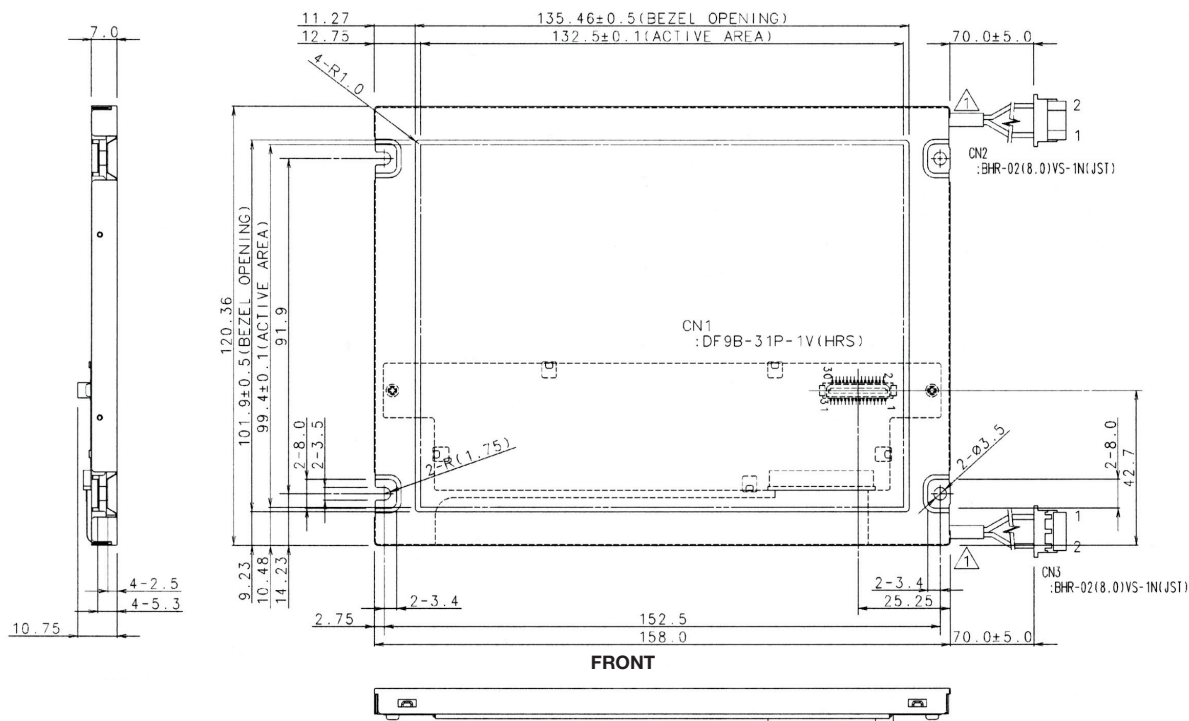
Backlight

- Luminance: 400 nits
- Two field-replaceable CCFL backlights with 30,000 hr. lifetime

Optrex is a world leader in the design and manufacture of OEM liquid crystal displays (LCDs) for an expanding line of products that includes displays for telecommunications and non-PC Internet devices, test, measurement and diagnostic instruments, handheld data management equipment, and automotive and avionics displays. Founded in 1976, Optrex has followed an aggressive policy of growth and expansion and now serves customers through an extensive in-field network of applications engineers and more than 100 sales and distribution offices throughout the world. The Optrex technology palette includes Active-MLA (multi-line addressing), TFT (thin film transistor), VHC (very high contrast), STN (super twisted nematic), HPC (high performance color) for car audio applications, TFCC (trim fine crystal color) for color mobile products, and OLED (organic light emitting diode).

Model Name		T-51750GD065J-FW-AA /-AB
Module Type	Color TFT Digital LCD	
Display Operating Mode	Transmissive, normally white	
Screen Size (inch)	6.5-inch diagonal	
Surface Treatment	-AA: AGLR (Anti-Glare, Low Reflective) coating, 3H -AB: AR (Anti-Reflective) coating, >2H	
Display Format (dot)	640 x 480	
Dot Pitch (HxV mm)	0.069 x 0.207	
Active Area (HxV mm)	132.5 x 99.4	
Pixel Configuration	RGB vertical stripe	
Outline Dimensions (WxHxD mm)	158.0 x 120.36 x 11.55	
Supply Voltage (VDC)	3.3/5.0 CMOS	
Response Time (ms)	31 ms	
Backlight	CCFL, 2 tubes, replaceable	
Lamp Lifetime (hours)	30,000	
Luminance (cd/m ²)	400	
Contrast Ratio	300:1	
Display Colors	262,144	
Viewing Direction	6 o'clock	
Viewing Angle	H: +/- 55°; V: +60/-30°	
Module Mass (g)	190	
Shock Resistance	490 m/s ² (50G)	
Operating Temperature Range	0°C to +60°C	
Storage Temperature Range	-25°C to +70°C	

Note: Specifications are subject to change without notice.



Ask about the Optrex Value-Added Program

Unlimited custom design capabilities for anything from simple connector attachments to sophisticated LCD module integration with plastic housing, buttons, custom circuitry and firmware design.

For complete technical specifications call 734-416-8500 or visit our website at www.optrex.com



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FPD Total Solution Provider