



NL8060BC31-50F

- 12.1" Inch Display Module

Ultra High Brightness

#### General Characteristics

Resolution	800x600 pixel
Display Mode	TN
Surface	Clear

#### Optical Characteristics

Viewing Angle (l,r,u,d)	80,80,80,80 °
Luminance	900 cd/m <sup>2</sup>
Color Gamut (w.r.t. NTSC)	40%
Contrast Ratio	1000:1
Response Time	18 msec.
LED Lifetime	70 khrs

#### Electrical Characteristics

Interface	CMOS 6b
Power Consumption	7.1 W.

#### Mechanical & Environmental Characteristics

Operating Temperature	-30~80 °C.
Storage Temperature	-30~80 °C.
Width x Height	260.5 mm. x 203.0 mm.
Thickness	8.7 mm.
Weight	490 g.
Compliance	RoHS (2011/65/EU) UL 60950-1 certified.

NOTE: An external LED Driver (104PW03F) is available as separate product.





## Explanations

### Surface Abbreviations:

AG: Anti Glare  
AR: Anti Reflective  
AFP: Anti Finger Print  
bare: unprocessed Glass Surface

### Interface Abbreviations:

LVDS: Low Voltage Differential Signaling Interface  
CMOS: Parallel CMOS Interface  
eDP: embedded Display Port Interface  
SPI: additional serial control/initialization interface  
MIPI: MIPI-DSI Interface  
... 6b: 6 bit / color (RGB)  
... 8b: 8 bit / color (RGB)  
... 6b/8b: 6bit or 8 bit / color (RGB) selectable modes  
For others and more, please consult the product datasheet.

### Display Mode Abbreviations:

SFT: Wide Viewing Angle & Low Color Shift Technology ("like IPS") – Normal Black  
TN: Twisted Nematic Technology – Normal White  
ColorXCell: Integrated Color Enhancement Function  
T-EVT: Transmissive Enhanced View Type Technology (High Brightness plus AR Surface)  
R-EVT: Transflective Enhanced View Type Technology (Partially Reflective Pixel Cell)

### Viewing Angle:

l/r/u/d : left / right / up / down direction, measured at grey level contrast ratio  $\geq 10:1$

### Color Gamut:

w.r.t. NTSC : with reference to the NTSC CIE 1931 color space

A full set of data sheets are available for this unit, including:

- Solid works 3D images
- LVDS Data cable pin outs.
- Detailed mechanical drawings.
- Detailed technical specifications.
- Compatible touch screens

RDS offer an optical or tape bonding service for touch panels as well as custom front cover designs. If you need further information or would like to discuss your project please contact RDS below.

### [RDS Contact details](#)

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