



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.

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Tianma/NL Product Line

NL12880BC20-07F - 12.1" Inch Display Module
Ultra High Brightness

General Characteristics

Resolution	1280x800 pixel
Display Mode	TN (ColorXcell)
Surface	AG

Optical Characteristics

Viewing Angle (l,r,u,d)	80,80,80,80 °
Luminance	1800 cd/m ²
Color Gamut (w.r.t. NTSC)	40%
Contrast Ratio	800:1
Response Time	15 msec.
LED Lifetime	60 khrs

Electrical Characteristics

Interface	LVDS 6/8b
Power Consumption	16.7 W.

Mechanical & Environmental Characteristics

Operating Temperature	-20~70 °C.
Storage Temperature	-30~80 °C.
Width x Height	277.7 mm. x 180.6 mm.
Thickness	8.7 mm.
Weight	470 g.
Compliance	RoHS (2011/65/EU) UL 60950-1 certified.

