



IPS

Excellent Viewing Angle and High Contrast

IPS (In-Plane Switching) is a display panel technology which was originally the result of improving another popular TFT panel technology, the TN panel (Twisted Nematic). Due to the molecule-structure of the TN panel, one of the downsides of this technology is the well-known limited viewing angle and color inversion, particularly in one viewing direction. This shift in color and contrast is related to how light is guided through the panel. In an IPS panel, the molecule-structure is organized differently as they are parallel to the glass of the panel. As a result, the viewing angle from any direction is much more uniform, with improved contrast and practically no color-inversion.

For many years TN-based TFT display panels dominated the industrial display market, and the technology still holds good market share. However, IPS popularity in the consumer market is driving a shift in the industrial market towards IPS-based TFT displays with symmetric viewing angles and high contrast.

We have a variety of standard sizes in our IPS family and we are committed to providing high quality displays with long term support and competitive pricing. Should you have a requirement for unique specifications for your project, we offer the possibility of a fully customized solution.

Ideally suited for various applications, from portable hand-held to industrial HMI. These displays can meet your demands of reliable operation and long-term availability.



Operators from all industrial levels often prefer these displays due to their easy and reliable read-out from all viewing angles. IPS displays also enable more accurate and consistent color reproduction.

Available in standard sizes:
2.0" | 2.4" | 2.8" | 3.5" | 4.3"
5.0" | 7.0" | 8.0" | 10.1" | 10.4"

Emerging Display Technologies Corp
www.edtc.com



2.0" IPS TFT	
Resolution	240 x 320
Part Number	ET020013DMA
Brightness	550 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

2.8" IPS TFT	
Resolution	240 x 320
Part Number	ET028013DMA
Brightness	500 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

4.3" IPS TFT	
Resolution	800 x 480
Part Number	ET043011DMA
Brightness	500 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

5.0" IPS TFT	
Resolution	800 x 480
Part Number	ET050013DMA
Brightness	500 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

7.0" IPS TFT	
Resolution	1024 x 600
Part Number	ET070016DMA
Brightness	500 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

7.0" IPS TFT	
Resolution	800 x 480
Part Number	ET070018DMA
Brightness	500 nits
Temp. Range:	Op. -30°C~+85°C St. -30°C~+85°C

7.0" IPS TFT	
Resolution	800 x 1280
Part Number	ET070015DMA
Brightness	530 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

10.1" IPS TFT	
Resolution	1280 x 800
Part Number	ET101006DMA ET101007DMA
Brightness	450 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

10.4" IPS TFT	
Resolution	1024 x 768
Part Number	ET104007DSA
Brightness	1000 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

For 3.5" and larger TFT displays, we also offer standard versions with integrated capacitive touch panels.



2.4" IPS TFT	
Resolution	240 x 320
Part Number	ET024013DMA
Brightness	550 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

3.5" IPS TFT	
Resolution	320 x 240
Part Number	ET035013DMA
Brightness	500 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

4.3" IPS TFT	
Resolution	480 x 272
Part Number	ET043013DMA
Brightness	500 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

5.0" IPS TFT	
Resolution	720 x 1280
Part Number	ET050015DMA
Brightness	530 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

7.0" IPS TFT	
Resolution	1024 x 600
Part Number	ET070016DBA
Brightness	1000 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

7.0" IPS TFT	
Resolution	800 x 480
Part Number	ET070018DBA
Brightness	1050 nits
Temp. Range:	Op. -30°C~+85°C St. -30°C~+85°C

8.0" IPS TFT	
Resolution	1024 x 768
Part Number	ET080013DBA
Brightness	1000 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+75°C

10.1" IPS TFT	
Resolution	1280 x 800
Part Number	ET101006DBA ET101007DBA
Brightness	1000 nits
Temp. Range:	Op. -20°C~+70°C St. -30°C~+80°C

You can also get our Smart Embedded solution with IPS technology.

 Smart Embedded®
www.smartembeddeddisplay.com

