

Driving innovation for rugged outdoor applications, Densitron has accomplished cost effective sunlight readable TFT technology without compromising colour saturation.

The result is a suite of products which deliver value, and cutting edge low power, sunlight readable technology, for applications which have a low power budget and sunlight readability.

Clients can select from standard module sizes, 2.2", 3.5" and 4.3" or engage in semi-custom modifications, for example, backlight and FPC interface with relatively small NRE cost.

Densitron can also deploy Projected Capacitive Touch Sensing, as an optional extra, with optical bonded and bespoke cover lenses.

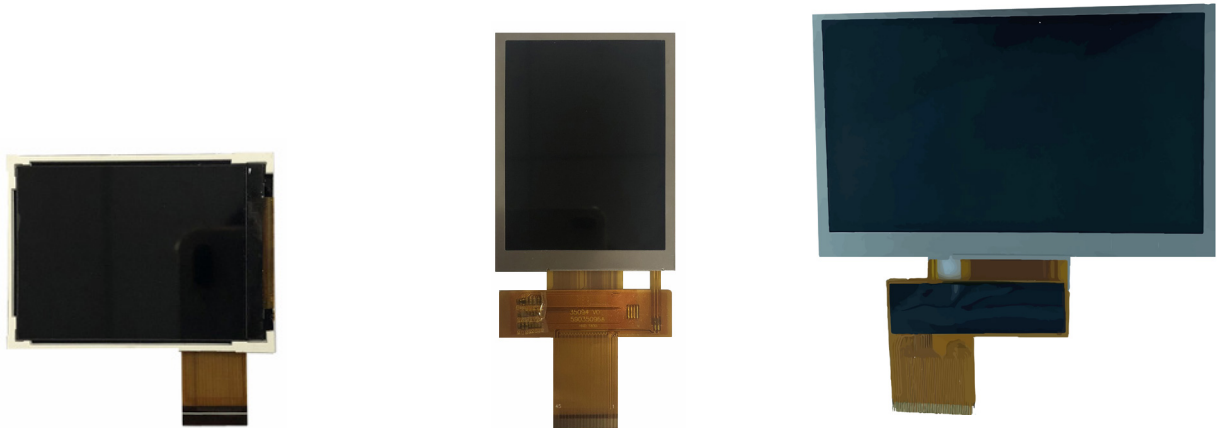
Product Features

- Sizes available: 2.2", 3.5" and 4.3"
- High resolutions: 2.2" 240x320, 3.5" 480x640, 4.3" 480x272
- Low power: backlight can be reduced to zero in direct strong sunlight
- Reflects ambient light and allows backlight through the stack
- True 24-bit colour depth which provides a 16.4 Million colour depth
- IPS technology which offer an **80/80/80/80** symmetric viewing angles
- The TFT module is designed to operate continuously with a backlight half-life of **50,000** hours and an operating temperature range of -20°C to +70°C
- All modules offer long term availability of 7 years plus
- It offers 10-finger Projected Capacitive Touch (PCT) as an option
- **420~640cd/m2** peak luminance as a typical brightness level
- Multiple interface: **MPU/RGB/SPI**



	Item	Contents		
Product Description	Screen Size	2.2"	3.5"	4.3"
	Display Format	240 x 320	480 x 640	480 x 272
	Colour	262K	16.7M	16.7M
	Active Area	33.84 x 45.12mm	53.28 x 71.04mm	95.04 x 53.86mm
	Outline Dimensions	41.7 x 56.16 x 2.6 mm	64.0 x 85.0 x 3.1, mm	105.5 x 67.2 x 2.9 mm
	Viewing Angle	80/80/80/80 Degrees	80/80/80/80 Degrees	80/80/80/80 Degrees
	Contrast Ratio	800:1 (Typ.)	700:1 (Typ.)	400:1 (Typ.)
	Peak Luminance	640cd/m ²	420cd/m ²	450cd/m ²
	LED Backlight Lifetime	50,000 hour half-life	50,000 hour half-life	50,000 hour half-life
	I/O	MPU/SPI/SPI+RGB	RGB	RGB
	Power	VCI 2.8V; IOVCC 1.8V	VCI 3.3V; IOVCC 1.8V	VDD 3.3V; IOVCC 1.8V
	Power Consumption	390mW for backlight	372mW for backlight	482mW for backlight
	Operating Temperature	-20°C ~ 70°C	-20°C ~ 70°C	-20°C ~ 70°C
	Storage Temperature	-30°C ~ +80°C	-30°C ~ +80°C	-30°C ~ +80°C
	Response Time	20mS	25mS	50mS
	Touch	Optional	Optional	Optional
	Tape Bonding	Optional	Optional	Optional
	Weight	20.0 g	33.25 g	40.0 g

Transflective Display Range



Size	Part Number	Description
2.2"	DMT022QVHXNT0-1A	2.2" TFT 240 x 320, Transflective
3.5"	DMT035VGNXNT0-1B	3.5" 480 x 640, Transflective
3.5"	DMT035VGNXCMI-1A	3.5" 480 x 640, Transflective Touch
4.3"	DMT043QQTNT0-1M	4.3" TFT 480 x 272, Transflective

Contact your local sales office at www.densitron.com