



**Displays**

# Short Form Catalog 2013

## Liquid Crystal Displays

### Full Line of Displays

- p-Si and a-Si Technology
- Small TFT Color Monitors
- Large and Medium TFT Color Modules
  - Intelligent LCD Graphic Displays
- Intelligent LCD Alphanumeric Displays

### NEW! OLED Displays Graphic and Alphanumeric

- Panel/Segment Displays
- Film Super Twist Nematic
  - Super Twist Nematic

### Precision Custom Enhancements:

- Anti-Reflective Films
- High-Bright Backlights
- White LED Backlights
  - Heaters
- Controller Cards
  - Inverters
  - Cabling

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LCD\_SFC\_1211



## Color TFT Video Monitors (includes CCFL or LED backlight, inverter & control circuitry. \*Control circuitry includes integrated DC-AC inverter to drive CCFL backlight.)

Part Number	Screen Diagonal (inches)	Pixel Count W x H	Brightness Nits (cd/m <sup>2</sup> )	Pixel Pitch (mm) W x H	Active Area (mm) W x H	Overall Dimension (mm) W x H x D	Driving Voltage (V)	Input Signal
ANDpSi020TD-LED	2.0	320 x 240	250	0.053 x 0.159	40.67 x 30.48	46.1 x 40.96 x 2.53	12.0	NTSC, PAL
AND-TFT-25XS-LED	2.5	160 x 234	250	0.125 x 0.163	49.68 x 37.44	60.6 x 48.4 x 3.45	12.0	NTSC, PAL
AND-TFT-35VX-UHB-LED	3.5	640 x 480	1,500	0.1125 x 0.1095	72 x 52.56	84.24 x 65.4 x 3.45	5.0	VGA, NTSC, PAL
AND-TFT-35VX	3.5	640 x 480	210	0.1125 x 0.1095	72 x 52.56	84.24 x 65.4 x 3.45	5.0	VGA, NTSC, PAL
AND-TFT-35VXTS	3.5	640 x 480	210	0.11125 x 0.1095	72 x 52.56	84.25 x 65.4 x 4.45	5.0	VGA, NTSC, PAL
AND-TFT-35XS-LED	3.5	320 x 234	250	0.074 x 0.225	71.6 x 52.65	83.5 x 63.1 x 3.6	12.0	NTSC, PAL
AND-TFT-43LP	4.3	480 x 272	400	0.198 x 0.198	95.04 x 53.856	105.5 x 67.2 x 4.05	12.0	VGA, NTSC, PAL
AND-TFT-5PA	5.0	320 x 234	400	0.107 x 0.319	102.7 x 74.5	127 x 93 x 13	12.0*	NTSC, PAL
AND-TFT-5PA-DHB	5.0	320 x 234	500	0.32 x 0.32	102.7 x 74.5	127 x 93 x 13	12.0*	NTSC, PAL
AND-TFT-5VX	5.0	640 x 480	400	0.156 x 0.159	74.88 x 101.76	91.4 x 119.3 x 7.9	12.0	VGA, NTSC, PAL
AND-TFT-5VX-4HB	5.0	640 x 480	1,000	0.156 x 0.159	74.88 x 101.76	91.4 x 119.3 x 7.9	12.0	VGA, NTSC, PAL
AND-TFT-5LP	5.0	640 x 480	200	0.1587 x 0.1587	101.59 x 76.18	132.65 x 90.23 x 23.1	12.0	VGA, NTSC, PAL
AND-TFT-56LP	5.6	640 x 480	350	0.1764 x 0.1764	112.9 x 84.7	141.5 x 101.6 x 18.5	12.0	VGA, NTSC, PAL
AND-TFT-64PA	6.4	320 x 234	330	0.135 x 0.416	129.6 x 97.3	156.3 x 120 x 14.3	12.0*	NTSC, PAL
AND-TFT-64PA-DHB	6.4	320 x 234	500	0.135 x 0.416	129.6 x 97.3	156.3 x 120 x 14.3	12.0*	NTSC, PAL
AND-TFT-64PA-LED	6.4	320 x 234	400	0.135 x 0.416	129.6 x 97.34	156.3 x 119.8 x 14.3	12.0	NTSC, PAL
AND-TFT-7LP	7.0	480 x 234	400	0.190 x 0.190	152.4 x 91.44	165 x 104 x 6.2	12.0	NTSC, PAL
AND-TFT-8LP	8.0	800 x 480	450	0.2208 x 0.2070	176.64 x 99.36	236.6 x 118.7 x 22.9	12.0	VGA, NTSC, PAL

## Color TFT Modules (includes CCFL or LED backlight. Available separately: CAC inverters and PWM backlight drivers. Touch screens are available for most modules below in 4- or 5- wire resistive types.)

Part Number	Screen Diagonal (inches)	Pixel Count <sup>(1)</sup> W x H	Brightness Nits (cd/m <sup>2</sup> )	Pixel Pitch (mm) W x H	Active Area (mm) W x H	Overall Dimension (mm) W x H x D	Driving Voltage (V)	Input Signal <sup>(2)</sup>
AND050VL-LED	5.0	640 x 480	450	0.159 x 0.156	101.76 x 74.88	120.7 x 92.8 x 12.5	5.0	LVDS 6-bit interface
ANDpSi056ET0S-HB	5.6	1024 x 600	250	0.120 x 0.120	122.88 x 72	141.8 x 84.4 x 7.5	3.3	LVDS 6-bit interface
ANDpSi056ET0S-LED	5.6	1024 x 600	400	0.120 x 0.120	122.88 x 72	141.8 x 84.4 x 7.5	5.0	LVDS 6-bit interface
AND064VT8-HB-LED	6.4	640 x 480	400	0.203 x 0.203	129.6 x 97.44	175.4 x 126.9 x 12.5	5.0	LVDS 6-bit interface
AND065A041F-HB	6.5	640 x 480	400	0.207 x 0.207	132.48 x 99.36	153 x 118 x 11	5.0	Digital 6-bit interface
AND065A041F-HB2	6.5	640 x 480	400	0.207 x 0.207	132.48 x 99.36	153 x 118 x 11	5.0	Digital 6-bit interface
ANDpSi08C351-HB	8.0	800 x 600	350	0.213 x 0.213	170.4 x 127.8	200 x 150 x 12	3.3	Digital 6-bit interface
ANDpSi084C270F-HB	8.4	800 x 600	400	0.213 x 0.213	170.x x 127.8	199.5 x 149.5 x 12	3.3	LVDS 6-bit interface
ANDpSi089C362S	8.9	1024 x 600	250	0.1905 x 0.1890	195.07 x 113.4	219.5 x 134.5 x 5.2	3.3	Digital 6-bit interface
ANDpSi089C362S-4HB	8.9	1024 x 600	800	0.1905 x 0.1890	195.07 x 113.4	219.5 x 134.5 x 8.4	3.3	LVDS 6-bit interface
AND104X02-HB	10.4	1024 x 768	340	0.2055 x 0.2055	210.43 x 157.8	238.6 x 173.2 x 4.3	3.3	LVDS 6-bit interface
AND12C285-DHB	12.1	800 x 600	500	0.3075 x 0.3075	246.0 x 184.5	290 x 220 x 15	5.0	Digital 6-bit interface
AND12C285-4HB	12.1	800 x 600	850	0.3075 x 0.3075	246.0 x 184.5	290 x 209 x 12	5.0	Digital 6-bit interface
ANDpSi121C250F-HB	12.1	1024 x 768	400	0.24 x 0.24	246.7 x 184.32	278.3 x 209 x 12	3.3	LVDS 6-bit interface

**Note 1:** VGA = 640 x 480 resolution; SVGA = 800 x 600 resolution; XGA = 1024 x 768 resolution

**Note 2:** 6-bit = 256K colors; 8-bit = 16.2 M colors



# Monochromatic Displays

## Intelligent Graphic Displays (STN, FSTN, BST) Note 1: Wide Viewing angle display

Part Number	Pixel Count W x H	Pixel Pitch (mm) W x H	Viewing Area (mm) W x H	Overall Dimension (mm) W x H x D	Driving Voltage(V)	Built-in Controller	Backlight -30 -EL	Contrast Ratio
AND1264GST-LED	128 x 64	0.56 x 0.52	72 x 40	87 x 70 x 12.7	+5	T6963C	LED	7:1
AND1264WGST-LED	128 x 64	0.56 x 0.52	72 x 40	87 x 70 x 12.7	+5	T6963C	LED	7:1
AND1391ST	128 x 128	0.43 x 0.43	62 x 62	84.4 x 100 x 14	+5/-14.5	T6963C		4:1
AND1391ST-LED	128 x 128	0.50 x 0.50	69 x 69	88 x 88 x 16.3	+5/-14.2	T6963C	LED	4:1
AND1013ST-LED	160 x 128	0.58 x 0.58	101 x 82	129 x 102 x 19.2	+5/-15	T6963C	LED	6:1
AND711AST-30	240 x 64	0.53 x 0.53	132 x 39	180 x 65 x 12	+5/-8.5	T6963C	-30	4:1
AND711AST-EO	240 x 64	0.53 x 0.53	132 x 39	180 x 65 x 12	+5/-8.5	T6963C	EL	4:1
AND1781BST-LED	240 x 64	0.53 x 0.53	134 x 40.4	180 x 65 x 9.7	+5	T6963C	LED	6:1
AND1781MST-LED	240 x 64	0.53 x 0.53	127.2 x 33.9	180 x 70 x 14	+5	T6963C	LED	12:1
AND1743MST-LED	240 x 64	0.50 x 0.50	132 x 76	170 x 95 x 14	+5	T6963C	LED	6:1
AND1743FST-LED	240 x 128	0.50 x 0.50	132 x 76	170 x 95 x 14	+5	T6963C	LED	6:1
AND1743BST-LED	240 x 128	0.50 x 0.50	132 x 76	170 x 95 x 14	+5	T6963C	LED	6:1
AND1742MST2	240 x 128	0.51 x 0.51	134 x 76	180 x 110 x 15.1	+5	RAIO	CCFL	6:1
AND322MST2	320 x 240	0.36 x 0.36	120 x 92	148 x 120 x 20.5	+5/-22.0	SED1335	CCFL	6:1
AND322MST2-LEDW <sup>(1)</sup>	320 x 240	0.36 x 0.36	120.14 x 92.14	148 x 120 x 20.5	+5	SED1335	LED White	6:1

## Intelligent Alphanumeric Displays (STN, FSTN, BST)

Part Number	Lines x Characters	Character Size (mm) W x H	Viewing Area (mm) W x H	Outline Dimension (mm) W x H x D	Driving Voltage (V)	Built-in Con- troller	Backlight
AND081GST	1 x 8	4.45 x 8.35	48.0 x 13.0	60 x 36 x 10	5	HD44780	-
AND081GST-LED	1 x 8	4.45 x 8.35	48.0 x 13.0	60 x 36 x 13	5	HD44780	LED
AND082GST	2 x 8	2.96 x 5.56	38.0 x 16.0	58 x 32 x 8.4	5	HD44780	-
AND082GST-LED	2 x 8	2.96 x 5.56	38.0 x 16.0	58 x 32 x 12.8	5	HD44780	-
AND671GST-LED	1 x 16	3.07 x 6.56	64.5 x 13.8	80 x 36 x 11.3	5	HD44780	-
AND471GST	2 x 16	4.84 x 9.66	99 x 24	122 x 44 x 11.3	5	HD44780	-
AND471GST-LED	2 x 16	4.84 x 9.66	99 x 24	122 x 44 x 15.8	5	HD44780	LED
AND481GST	2 x 16	2.78 x 4.89	62 x 16	85 x 30 x 10.1	5	HD44780	-
AND481GST-LED	2 x 16	2.78 x 4.89	62 x 16	85 x 30 x 15.8	5	HD44780	LED
AND491GST	2 x 16	2.95 x 4.35	64.5 x 13.8	80 x 36 x 11.3	5	HD44780	-
AND491GST-LED	2 x 16	2.95 x 4.35	64.5 x 13.8	80 x 36 x 15.8	5	HD44780	LED
AND731GST	4 x 16	2.95 x 4.75	62 x 25.6	87 x 60 x 8.8	5	HD44780	-
AND731GST-LED	4 x 16	2.95 x 4.75	62 x 25.6	87 x 60 x 12.7	5	HD44780	LED
AND501GST	2 x 20	3.2 x 5.55	83 x 18.6	116 x 37 x 11.3	5	HD44780	-
AND501GST-LED	2 x 20	3.2 x 5.55	83 x 18.6	116 x 37 x 15.8	5	HD44780	LED
AND501WGST	2 x 20	3.2 x 5.55	83 x 18.6	116 x 37 x 15.8	5	HD44780	-
AND501WGST-LED	2 x 20	3.2 x 5.55	83 x 18.6	116 x 37 x 15.8	5	HD44780	LED
AND721GST	4 x 20	2.95 x 4.75	76 x 25.2	98 x 60 x 12	5	HD44780	-
AND721GST-LED	4 x 20	2.95 x 4.75	76 x 25.2	98 x 60 x 16	5	HD44780	LED
AND591GST	2 x 40	3.2 x 5.55	154 x 15.3	182 x 33.5 x 8.8	5	HD44780	-
AND591GST-LED	2 x 40	3.2 x 5.55	154 x 15.3	182 x 33.5 x 12.7	5	HD44780	LED
AND791GST	4 x 40	2.78 x 4.89	149 x 29.5	190 x 54 x 8.8	5	HD44780	-
AND791GST-LED	4 x 40	2.78 x 4.89	149 x 29.5	190 x 54 x 13	5	HD44780	LED

### Notes for the Intelligent Graphic Displays

- "30" means that the LCD has a transfective reflector. Part would be ordered with a "-30" suffix (i.e. AND1013ST-30);
- "EO" means that an electroluminescent panel is installed in the LCD. Order with the "EO" suffix (i.e. AND1013ST-EO);
- CCFL means that a cold cathode fluorescent lamp is installed in the module.;
- "MST" means Film Super Twist Nematic (FSTN); • "BST" means Blue Mode Super Twist Nematic LCD



## Intelligent Graphic Displays (OLED) \*OLED available in (White, Green, Blue, and Red) Sunlight readable.

Part Number	Pixel Count W x H	Pixel Pitch (mm) W x H	Viewing Area (mm) W x H	Overall Dimension (mm) W x H x D	Driving Voltage(V)	Built-in Controller	Backlight
AND005016A-OLED	50 x 16	0.70 x 0.60	38.0 x 16.0	58.0 x 32.0 x 10.0	5V, option 3 V	WS0010	*OLED
AND010008A-OLED	100 x 8	0.80 x 0.60	66.0 x 16.0	80.0 x 36.0 x 10.0	5V, option 3 V	WS0010	*OLED
AND010016B-OLED	100 x 16	1.12 x 0.96	99.0 x 24.0	122.0 x 44.0 x 10.0	5V, option 3 V	WS0010	*OLED
AND010016D-OLED	100 x 16	0.70 x 0.60	66.0 x 16.0	85.0 x 30.0 x 10.0	5V, option 3 V	WS0010	*OLED
AND010016A-OLED	100 x 16	0.70 x 0.60	66.0 x 16.0	80.0 x 36.0 x 10.0	5V, option 3 V	WS0010	*OLED
AND010016F-OLED	100 x 16	0.70 x 0.65	85.0 x 18.60	116.0 x 37.0 x 9.8	5V, option 3 V	WS0010	*OLED
AND010016F-OLED	100 x 16	0.70 x 0.65	85.0 x 18.60	116.0 x 37.0 x 9.8	5V, option 3 V	WS0010	*OLED
AND010032A-OLED	100 x 32	0.60 x 0.59	77.0 x 25.2	98.0 x 60.0 x 10.0	5V, option 3 V	WS0010	*OLED

## Intelligent Alphanumeric Displays (OLED) \*OLED available in (White, Green, Blue, and Red) Sunlight readable.

Part Number	Lines x Characters	Character Size (mm) W x H	Viewing Area (mm) W x H	Outline Dimension (mm) W x H x D	Driving Voltage (V)	Built-in Controller	Backlight
AND000802A-OLED	2 x 8		38.0 x 16.0	58.0 x 32.0 x 10	5V, option 3V	WS0010	*OLED
AND001601A-OLED	1 x 16		66.0 x 16.0	80.0 x 36.0 x 10.0	5V, option 3V	WS0010	*OLED
AND001602B-OLED	2 x 16		99.0 x 24.0	122.0 x 44.0 x 10.0	5V, option 3V	WS0010	*OLED
AND 001602D-OLED	2 x 16		66.0 x 16.0	85.0 x 30.0 x 10	5V, option 3V	WS0010	*OLED
AND001602A-OLED	2 x 16		66.0 x 16.0	80.0 x 36.0 10	5V, option 3V	WS0010	*OLED
AND002002A-OLED	2 x 20		85.0 x 18.6	116.0 x 37.0 x 9.8	5V, option 3V	WS0020	*OLED
AND002004A-OLED	4 x 20		77.0 x 25.2	98.0 x 60.0 x 10.0	5V, option 3V	WS0010	*OLED
AND004002A-OLED	2 x 40		154.4 x 16.5	182.0 x 33.5 x 9.3	5V, option 3V	WS0010	*OLED

## LCD - Panel-Segment Displays (Wide Temperature & High Humidity)

Part Number	Display Font	Digit Height in inches	Package Dimensions in inches (L x W)
FE1901W		0.5	1.1 x 1.2
FE0201W		0.5	2.0 x 1.2
FE0203W		0.5	2.0 x 1.2
FE0202W		0.5	2.0 x 1.2
FE0501W		0.7	2.75 x 1.5
FE0502W		0.7	2.75 x 1.5
FE0206W		0.5	2.0 x 1.2
FE0208W		0.4	2.0 x 1.2
FE0401W		0.5	2.75 x 1.2
FE0601W		0.7	3.7 x 1.5
FE1001W		0.5	3.7 x 1.2

### Backlight viewing mode designation is:

- DU for "reflective" surface to reflect ambient light back through the liquid crystal materials for illumination.
- EU for "transflective" surface which uses a partially reflecting surface for viewing with a backlight or using reflected light.
- Example: To receive a 0.5-inch high, 4-digit, wide temperature, high humidity, reflective panel display, order: FE202+w-DU = FE0202W-DU