



Color Displays - (Prototype Kits Available for All Displays)

Color TFT Monitors (includes CCFL backlight, inverter and control circuitry)

Part Number	Screen Diagonal (inches)	Pixel Count W x H	Brightness Nits (cd/m ²)	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
AND-TFT-25PA	2.5	160 x 234	250	0.105 x 0.161	50.2 x 37.7	62 x 49 x 6	12.0*	TFT Analog RGB, NTSC, PAL
AND-TFT-25PA-LED	2.5	160 x 234	220	0.1025 x 0.163	49.2 x 38.14	59 x 50 x 6	12.0	TFT Analog RGB, NTSC, PAL
AND-TFT-35PA	3.5	160 x 234	250	0.149 x 0.225	71.6 x 52.7	84 x 69 x 7	12.0*	TFT Analog RGB, NTSC, PAL
AND-TFT-35PA-LED	3.5	160 x 234	220	0.149 x 0.225	71.6 x 52.7	84 x 69 x 8	12.0	TFT Analog RGB, NTSC, PAL
AND-TFT-35PA-4HB	3.5	160 x 234	2,000	0.149 x 0.225	71.6 x 52.7	84 x 69 x 9	12.0	TFT Analog RGB, 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 Composite, RGB, VGA
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 Composite, RGB, VGA
AND-TFT-5TS	5.0	960 x 234	350	0.107 x 0.319	102.7 x 74.5	119 x 91 x 7.5	12.0	NTSC/PAL Composite, RGB, VGA
ABD-TFT-62PA	6.2	1440 x 234	350	0.114 x 0.33	137.5 x 77.2	154.4 x 92.6 x 6	12.0	NTSC/PAL Composite, RGB, VGA
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 Composite
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 Composite
AND-TFT-7PA	7.0	1440 x 234	350	0.107 x 0.37	154.1 x 86.6	166 x 100 x 7.2	12.0	NTSC/PAL Composite

* Control circuitry includes integrated DC-AC inverter to drive CCFL backlight.

Color TFT Modules (includes CCFL backlight)

Part Number	Screen Diagonal (inches)	Pixel Count ⁽¹⁾ W x H	Brightness Nits (cd/m ²)	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 ⁽²⁾
Poly-Silicon Color TFT Displays								
ANDpSi04C380K-HB	4.0	640 x 480	200	0.126 x 0.126	80.64 x 60.48	118 x 73 x 6	3.3	Digital 6-bit interface
ANDpSi056ET0S	5.6	1024 x 600	120	0.120 x 0.120	122.88 x 72	141.8 x 84.4 x 7.5	3.3	Digital 6-bit interface
ANDpSi056ET0S-DHB	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	Digital 6-bit interface
ANDpSi08C355	8.4	800 x 600	145	0.213 x 0.213	170.4 x 127.8	201 x 140 x 6	3.3	Digital 6-bit interface
ANDpSi08C351-HB	8.4	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
ANDpSi104EA5S-HB	10.4	1024 x 768	180	0.2055 x 0.2055	210.4 x 157.8	242 x 172 x 6	3.3	LVDS 6-bit interface
ANDpSi104EA5S-4HB	10.4	1024 x 768	1,000	0.2055 x 0.2055	210.4 x 157.8	238 x 173 x 15	3.3	LVDS 6-bit interface
ANDpSi121C505-HB	12.1	1024 x 768	165	0.24 x 0.24	245.7 x 184.3	261 x 199 x 5	3.3	LVDS 6-bit interface
ANDpSi121GA0S-HB	12.1	1024 x 768	350	0.24 x 0.24	245.8 x 184.3	278 x 209 x 12	3.3	Digital 6-bit interface
Amorphous-Silicon Color TFT Displays								
AND064VT4N1-HB	6.4	640 x 480	400	0.203 x 0.203	129.6 x 97.4	175 x 127 x 13	5.0	Digital 6-bit interface
AND064VT5N1-WVHB	6.4	640 x 480	350	0.203 x 0.203	129.6 x 97.4	175 x 127 x 13	5.0	Digital 6-bit interface
AND065A041F-HB	6.5	640 x 480	400	0.0685 x 0.2055	131.52 x 98.63	151 x 115.5 x 10	5.0	Digital 6-bit interface
AND10C210-HB	10.4	640 x 480	400	0.33 x 0.33	211.2 x 158.4	265 x 189 x 14	5.0	Digital 6-bit interface
AND10C210-DHB	10.4	640 x 480	500	0.33 x 0.33	211.2 x 158.4	265 x 189 x 14	5.0	Digital 6-bit interface
AND10C210-4HB	10.4	640 x 480	1,000	0.33 x 0.33	211.2 x 158.4	265 x 189 x 14	5.0	Digital 6-bit interface
AND10C401S-DHB	10.4	800 x 600	350	0.264 x 0.264	211.2 x 158.4	243 x 185 x 11	3.3	Digital 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 220 x 17	5.0	Digital 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 = 16.2M colors

Note 3: pSi in the part number designates a poly-silicon display (high definition and more durable), all other displays are amorphous silicon.

Note 4: Wide Viewing angle display



Monochromatic Displays

Intelligent Graphic Displays (STN, FSTN, BST)

See Notes on top of page 4

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		Contrast Ratio
							-30	-EL	
AND1021ST-EO	120 x 64	0.56 x 0.60	62.5 x 43.5	85 x 70 x 20	+5/-8.5	T6963C	-	EL	4:1
AND1021ST	120 x 64	0.56 x 0.60	62.5 x 43.5	85 x 70 x 20	+5/-8.5	T6963C	-	-	4:1
AND1261WGST	128 x 64	0.43 x 0.43	60 x 33	75 x 53 x 6.8	+5/-8.0	Built-in Data RAM	-	-	6:1
AND1261WGST-LED	128 x 64	0.43 x 0.43	60 x 33	75 x 53 x 8.9	+5/-8.0	Built-in Data RAM	LED		6:1
AND1263WGST	192 x 128	0.37 x 0.37	77.5 x 54	98 x 86 x 12.7	+5/-13.8	Built-in Data RAM	-	-	7:1
AND1263WGST-LED	192 x 128	0.37 x 0.37	77.5 x 54	98 x 86 x 12.7	+5/-13.8	Built-in Data RAM	LED		7:1
AND1391ST-EO	128 x 128	0.43 x 0.43	62 x 62	84.4 x 100 x 14	+5/-14.5	T6963C	-	EL	4:1
AND1391ST	128 x 128	0.43 x 0.43	62 x 62	84.4 x 100 x 14	+5/-14.5	T6963C	-	-	4:1
AND1013ST-EO	160 x 128	0.60 x 0.60	101 x 82	129 x 104.5 x 14	+5/-8.5	T6963C	-	EL	4:1
AND1013ST-30	160 x 128	0.60 x 0.60	101 x 82	129 x 104.5 x 14	+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
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
AND1781BST	240 x 64	0.53 x 0.53	127.2 x 33.9	180 x 70 x 14	+5/-12.2	T6963C	CCFL		6:1
AND1781MST	240 x 64	0.53 x 0.53	127.2 x 33.9	180 x 70 x 14	+5/-13.0	T6963C	CCFL		12:1
AND1741MST	240 x 128	0.50 x 0.50	126 x 70	170 x 106 x 14	+5/-18.5	T6963C	CCFL		12:1
AND1743FST-T	240 x 128	0.50 x 0.50	132 x 76	170 x 102 x 14	+5/-19.5	T6963C	CCFL		6:1
AND1742MST	240 x 128	0.51 x 0.51	134 x 76	180 x 110 x 15.1	+5	SED1330	CCFL		6:1
AND1742MST2	240 x 128	0.51 x 0.51	134 x 76	180 x 110 x 15.1	+5	None	CCFL		6:1
AND3222MST2	320 X 240	0.36 X 0.36	120 X 92	148 X 120 X 20.5	+5/-22.0	SED1330	CCFL		6:1

Intelligent Alphanumeric STN Displays

Part Number	Lines x Characters	Character Size (mm) W x H	Viewing Area (mm) W x H	Outline Dimensions (mm) W x H x D	Driving Voltage (V)	Built-in Controller	Backlight
AND671GST	1 x 16	3.07 x 6.56	64.5 x 13.8	80 x 36 x 11.3	5	HD44780	-
AND671GST-LED	1 x 16	3.07 x 6.56	64.5 x 13.8	80 x 36 x 16	5	HD44780	LED
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
AND771GST	2 x 24	3.2 x 5.50	94.5 x 17.8	118 x 36 x 11.3	5	HD44780	-
AND771GST-LED	2 x 24	3.2 x 5.50	94.5 x 17.8	118 x 36 x 15.8	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	147 x 29.5	190 x 54 x 10.1	5	HD44780	-
AND791GST-LED	4 x 40	2.78 x 4.89	147 x 29.5	190 x 54 x 16.3	5	HD44780	LED

+ All use Hitachi HD44780 controllers or equiv. + All displays have 6:00 viewing angle + For extended temp. & electroluminescent backlight options, contact factory



Notes for the Intelligent Graphic Displays

- "30" means that the LCD has a transreflective 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

LCD – Panel/Segment Displays (Wide Temperature & High Humidity)

Part Number	Display Font	Digit Height in Inches	Package Dimensions in Inches (Length x Width)
FE1901W	.8.8	0.5	1.1 x 1.2
FE0201W	≡1.8:8.8	0.5	2.0 x 1.2
FE0203W	^{LO BAI} ÷1.8:8.8	0.5	2.0 x 1.2
FE0202W	8.8:8.8	0.5	2.0 x 1.2
FE0502W	8.8:8.8	0.7	2.75 x 1.5
FE0206W	^{LO BAI} ÷1.8:8:8.8	0.5	2.0 x 1.2
FE0208W	8:8:8.8.8	0.4	2.0 x 1.2
FE0401W	.8.8:8.8:8.8	0.5	2.75 x 1.2
FE0601W	.8.8:8.8:8.8	0.7	3.7 x 1.5
FE1001W	8.8:8.8:8.8:8.8	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 "transreflective" 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**

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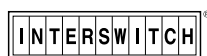
Liquid Crystal Display Products



Fans and Blowers



Light Emitting Diodes



Rotary and Thumbwheel Switches



Fiber Optic Components and
Cable Assemblies