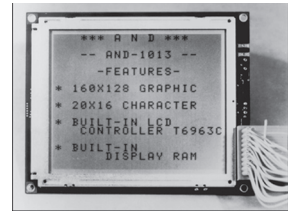


Monochrome Intelligent Graphic Displays — We offer a broad assortment of intelligent graphic displays with built-in controller circuitry. Resolutions range from 120x64 pixels to QVGA (320x240 pixels) format in an assortment of STN, FSTN, & BSTN technologies. These high contrast displays have high bright backlight systems including transfective reflectors, electroluminescent panels, and CCFL tube lighting, most featuring the versatile T6963C controller. We have provided solutions for medical instruments, thermal image, factory automation, high-speed cameras, movie cameras, vehicular controls, robotics, and scientific, test and measurement instruments.



Stock Number	Part Number	Pixel Count W x H	Pixel Pitch (mm) W x H	Viewing Area (mm) W x H	Driving Voltage(V)	Built-in Controller	Backlight -30 -EL	Contrast Ratio
	AND1264GST-LED	128 x 64	0.56 x 0.52	72 x 40	+5	T6963C	LED	7:1
	AND1264WGST-LED	128 x 64	0.56 x 0.52	72 x 40	+5	T6963C	LED	7:1
	AND1391ST	128 x 128	0.43 x 0.43	62 x 62	+5/-14.5	T6963C		4:1
	AND1391ST-EO	128 x 128	0.43 x 0.43	62 x 62	+5/-14.5	T6963C	EL	4:1
	AND1013ST-30	160 x 128	0.60 x 0.60	101 x 82	+5/-8.5	T6963C	-30	4:1
	AND1013ST-EO	160 x 128	0.60 x 0.60	101 x 82	+5/-8.5	T6963C	EL	4:1
	AND711AST-30	240 x 64	0.53 x 0.53	132 x 39	+5/-8.5	T6963C	-30	4:1
	AND711AST-EO	240 x 64	0.53 x 0.53	132 x 39	+5/-8.5	T6963C	EL	4:1
	AND1781BST	240 x 64	0.53 x 0.53	127.2 x 33.9	+5/-12.2	T6963C	CCFL	6:1
	AND1781BST-LED	240 x 64	0.53 x 0.53	134 x 40.4	+5	T6963C	LED	6:1
	AND1781MST-LED	240 x 64	0.53 x 0.53	127.2 x 33.9	+5	T6963C	LED	12:1
	AND1743MST-LED	240 x 64	0.50 x 0.50	132 x 76	+5	T6963C	LED	6:1
	AND1743FST-LED	240 x 128	0.50 x 0.50	132 x 76	+5	T6963C	LED	6:1
	AND1742MST2	240 x 128	0.51 x 0.51	134 x 76	+5	RAIO	CCFL	6:1
	AND322MST2	320 x 240	0.36 x 0.36	120 x 92	+5/-22.0	SED1335	CCFL	6:1
	AND322MST2-LEDW ⁽¹⁾	320 x 240	0.36 x 0.36	120.14 x 92.14	+5	SED1335	LED White	6:1

* "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

Monochrome Intelligent Alphanumeric Character Display Modules — We offer a broad assortment of STN intelligent alphanumeric displays with built-in control circuitry, featuring the versatile HD44780 controller. Standard formats range from 1 line by 16 characters up to 4 lines by 40 characters. High bright backlight systems that we offer include transfective reflectors and LED arrays, with electro-luminescent panels available on a special order basis. All AND Displays products are covered by a one-year warranty.

Stock Number	Part Number	Lines x Characters	Character Size (mm) W x H	Viewing Area (mm) W x H	Driving Voltage (V)	Built-in Con- troller	Backlight
	AND081GST	1 x 8	4.45 x 8.35	48.0 x 13.0	5	HD44780	-
	AND081GST-LED	1 x 8	4.45 x 8.35	48.0 x 13.0	5	HD44780	LED
	AND082GST	2 x 8	2.96 x 5.56	38.0 x 16.0	5	HD44780	-
	AND082GST-LED	2 x 8	2.96 x 5.56	38.0 x 16.0	5	HD44780	LED
	AND671GST	1 x 16	3.07 x 6.56	64.5 x 13.8	5	HD44780	-
	AND671GST-LED	1 x 16	3.07 x 6.56	64.5 x 13.8	5	HD44780	LED
	AND471GST	2 x 16	4.84 x 9.66	99 x 24	5	HD44780	-
	AND471GST-LED	2 x 16	4.84 x 9.66	99 x 24	5	HD44780	LED
	AND481GST	2 x 16	2.78 x 4.89	62 x 16	5	HD44780	-
	AND481GST-LED	2 x 16	2.78 x 4.89	62 x 16	5	HD44780	LED
	AND491GST	2 x 16	2.95 x 4.35	64.5 x 13.8	5	HD44780	-
	AND491GST-LED	2 x 16	2.95 x 4.35	64.5 x 13.8	5	HD44780	LED
	AND731GST	4 x 16	2.95 x 4.75	62 x 25.6	5	HD44780	-
	AND731GST-LED	4 x 16	2.95 x 4.75	62 x 25.6	5	HD44780	LED
	AND501GST	2 x 20	3.2 x 5.55	83 x 18.6	5	HD44780	-
	AND501GST-LED	2 x 20	3.2 x 5.55	83 x 18.6	5	HD44780	LED
	AND501WGST	2 x 20	3.2 x 5.55	83 x 18.6	5	HD44780	-
	AND501WGST-LED	2 x 20	3.2 x 5.55	83 x 18.6	5	HD44780	LED
	AND721GST	4 x 20	2.95 x 4.75	76 x 25.2	5	HD44780	-
	AND721GST-LED	4 x 20	2.95 x 4.75	76 x 25.2	5	HD44780	LED
	AND771GST	2 x 24	3.2 x 5.50	94.5 x 17.8	5	HD44780	-
	AND771GST-LED	2 x 24	3.2 x 5.50	94.5 x 17.8	5	HD44780	LED
	AND591GST	2 x 40	3.2 x 5.55	154 x 15.3	5	HD44780	-
	AND591GST-LED	2 x 40	3.2 x 5.55	154 x 15.3	5	HD44780	LED
	AND791GST	4 x 40	2.78 x 4.89	149 x 29.5	5	HD44780	-
	AND791GST-LED	4 x 40	2.78 x 4.89	149 x 29.5	5	HD44780	LED

Monochrome Direct Drive 7-Segment LCD Displays — Standard formats range from 2 characters up to 8 characters (custom formats and configurations are also available). All of our seven segment displays are designed for use in wide temperature and high humidity environments. Backlighting is available in both reflective and transfective configurations. All AND Displays products are covered by a one-year warranty. The 7-segment display is excellent for displaying text on portable instruments due to its ultra-low power requirements.

Stock Number	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 BAT} ÷1.8:8.8	0.5	2.0 x 1.2
	FE0202W	8.8:8.8	0.5	2.0 x 1.2
	FE0501W	≡1.8:8.8	0.7	2.75 x 1.5
	FE0502W	8.8:8.8	0.7	2.75 x 1.5
	FE0206W	^{LO BAT} ÷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

- Features:** Twisted Nematic technology and ultra-low power consumption.
- Viewing Mode:** Reflective. Dual-in-line pins with 0.1" (2.54) spacing.
- Electro-Optical Absolute Maximum Ratings (Liquid Crystal Material)**
- Operating Temperature Range: Standard temp.**— -20oC to +60oC; "W" wide temp. — -30oC to +80oC.
- Storage Temperature Range: Standard temp.**— -20oC to +60oC; "W" wide temp. — -30oC to +80oC.
- Operating Frequency: Standard temp.**— 30 Hz to 200 Hz; "W" wide temp. — 60 Hz to 300 Hz.
- Operating Characteristics (Liquid Crystal Material)**
- Operating Voltage: Standard temp.**— 3.0 Vrms; "W" wide temp. — 6.0 Vrms.
- Operating Temperature: Standard temp.**— -20oC to +60oC; "W" wide temp. — -30oC to +85oC.
- Contrast Ratio: Standard temp.**— 20:1; "W" wide temp. — 20:1.
- Expected Life: Standard temp.**— 50,000 hours; "W" wide temp. — 100,000 hours.
- Viewing Angle:** 6 o'clock.



FE1901
Actual Size