

GRAPHIC TYPE LCD  
MODULE SERIES

AG

Dots (W x H)	Model	Back-light Touch Panel	Dot size (W x H)	Dot pitch (W x H)	View area (W x H)	Module size (W x H x T Max)	Built-in Controller
122 x 32	AG12232A	None / EL	0.40 x 0.45	0.44 x 0.49	60.5 x 18.5	84.0 x 44.0 x 10.5	SBN1661G
		LED	0.40 x 0.45	0.44 x 0.49	60.5 x 18.5	84.0 x 44.0 x 15.5	
	AG12232B	None / EL/ LED	0.40 x 0.45	0.44 x 0.49	60.5 x 18.5	65.8 x 27.1 x 8.4	SBN1661G
128 x 64	AG12864A	None / EL	0.48 x 0.48	0.52 x 0.52	71.7 x 39.0	93.0 x 70.0 x 9.5	SBN6400G
		LED	0.48 x 0.48	0.52 x 0.52	71.7 x 39.0	93.0 x 70.0 x 14.5	SBN0064G
	AG12864C	None / EL	0.40 x 0.56	0.44 x 0.60	62.0 x 44.0	78.0 x 70.0 x 10.5	SBN6400G
		LED	0.40 x 0.56	0.44 x 0.60	62.0 x 44.0	78.0 x 70.0 x 13.0	SBN0064G
	AG12864D	None / EL	0.40 x 0.56	0.44 x 0.60	62.0 x 44.0	78.0 x 70.0 x 10.5	T6963C
		LED	0.40 x 0.56	0.44 x 0.60	62.0 x 44.0	78.0 x 70.0 x 13.0	
	AG12864E	None / EL	0.40 x 0.40	0.43 x 0.43	60.0 x 32.5	75.0 x 52.7 x 6.8	SBN6400G
		LED	0.40 x 0.40	0.43 x 0.43	60.0 x 32.5	75.0 x 52.7 x 9.0	SBN0064G
160 x 80	AG16080A	None / EL	0.39 x 0.39	0.42 x 0.42	72.3 x 37.8	100.0 x 54.0 x 11.3	T6963C
		LED	0.39 x 0.39	0.42 x 0.42	72.3 x 37.8	100.0 x 54.0 x 15.3	
240 x 64	AG24064B	None / EL	0.49 x 0.49	0.53 x 0.53	132.0 x 39.0	180.0 x 65.0 x 10.0	T6963C
		LED	0.49 x 0.49	0.53 x 0.53	132.0 x 39.0	180.0 x 65.0 x 16.0	
240 x 64	AG24064B5	LED	0.49 x 0.49	0.53 x 0.53	132.0 x 39.0	185.9 x 65.0 x 16.0	T6963C
240 x 128	AG240128B	None / EL / CCFL	0.47 x 0.47	0.50 x 0.50	132.0 x 76.0	170.0 x 103.2 x 14.0	T6963C
		None / EL	0.40 x 0.40	0.45 x 0.45	114.0 x 64.0	144.0 x 104.0 x 12.0	
	AG240128C	None / EL	0.40 x 0.40	0.45 x 0.45	114.0 x 64.0	144.0 x 104.0 x 15.0	T6963C*
		LED / Touch Panel	0.40 x 0.40	0.45 x 0.45	114.0 x 64.0	144.0 x 104.0 x 15.0	
	AG240128G	None / EL	0.40 x 0.40	0.45 x 0.45	114.0 x 64.0	144.0 x 104.0 x 12.0	T6963C*
		LED / CCFL / Touch Panel	0.40 x 0.40	0.45 x 0.45	114.0 x 64.0	144.0 x 104.0 x 15.0	
	AG240128I	None / EL	0.40 x 0.40	0.45 x 0.45	114.0 x 64.0	144.0 x 104.0 x 12.0	T6963C*
		LED / CCFL / Touch Panel	0.40 x 0.40	0.45 x 0.45	114.0 x 64.0	144.0 x 104.0 x 15.0	
320 x 240	AG320240A4	None/EL/White LED	0.345 x 0.345	0.36 x 0.36	122.0 x 92.0	167.1 x 109.01 x 14.5	RA8835
		CCFL	0.345 x 0.345	0.36 x 0.36	122.0 x 92.0	167.1 x 109.01 x 11.0	
		Touch Panel	0.345 x 0.345	0.36 x 0.36	122.0 x 92.0	173.0 x 109.0 x 12.5	
640 x 200	AG640200A	CCFL	0.3 x 0.3	0.33 x 0.33	218.0 x 74.0	259.5 x 104.0 x 15.5	*
640 x 480	AG640480C2	CCFL	0.21 x 0.21	0.23 x 0.23	153.0 x 115.4	205.5 x 141 x 8.7	*

- Full series of wide temperature.
- Temperature range: Normal type: Operating temp: 0~50°C.  
Wide temperature type: Operating temp: -20°C~+70°C

- Optional with pure driver or controller version.
- White LED available for Graphic Module. (Details please contact with sale people.)



CHARACTER TYPE LCD  
MODULE SERIES

AC

Display Char x Line	Model	Back-light type	Dot size (W x H)	Dot pitch (W x H)	Character (W x H)	View area (W x H)	Module size (W x H x T Max)
08 x 02	AC082A	None	0.545 x 0.645	0.60 x 0.70	2.945 x 5.545	35.0 x 15.0	58.0 x 32.0 x 10.0
		LED	0.545 x 0.645	0.60 x 0.70	2.945 x 5.545	35.0 x 15.0	58.0 x 32.0 x 13.8
16 x 1	AC161A	None / EL	0.55 x 0.75	0.63 x 0.83	3.07 x 6.56	65.0 x 14.0	80.0 x 36.0 x 10.0
		LED	0.55 x 0.75	0.63 x 0.83	3.07 x 6.56	65.0 x 14.0	80.0 x 36.0 x 14.5
	AC161B	None	0.92 x 1.10	0.98 x 1.16	4.84 x 8.06	99.0 x 13.0	122.0 x 33.0 x 10.5
		LED	0.92 x 1.10	0.98 x 1.16	4.84 x 8.06	99.0 x 13.0	122.0 x 33.0 x 15.0
	AC161J	LED	1.152 x 1.765	1.212 x 1.825	6.0 x 14.54	120.0 x 23.0	151.0 x 40.0 x 14.7
		None / EL	0.55 x 0.65	0.60 x 0.70	2.95 x 5.55	64.0 x 17.2	85.0 x 29.5 x 10.0
16 x 2	AC162A	Edge LED	0.55 x 0.65	0.60 x 0.70	2.95 x 5.55	64.0 x 17.2	85.0 x 29.5 x 11.0
		LED	0.55 x 0.65	0.60 x 0.70	2.95 x 5.55	64.0 x 17.2	85.0 x 29.5 x 14.5
	AC162B	None / EL	0.55 x 0.65	0.60 x 0.70	2.95 x 5.55	64.0 x 17.2	80.0 x 36.0 x 10.0
		Edge LED	0.55 x 0.65	0.60 x 0.70	2.95 x 5.55	64.0 x 17.2	80.0 x 36.0 x 11.0
		LED	0.55 x 0.65	0.60 x 0.70	2.95 x 5.55	64.0 x 17.2	80.0 x 36.0 x 14.5
	AC162C	None / EL	0.55 x 0.65	0.60 x 0.70	2.95 x 5.55	64.0 x 17.2	85.0 x 36.0 x 10.0
		Edge LED	0.55 x 0.65	0.60 x 0.70	2.95 x 5.55	64.0 x 17.2	85.0 x 36.0 x 11.0
		LED	0.55 x 0.65	0.60 x 0.70	2.95 x 5.55	64.0 x 17.2	85.0 x 36.0 x 14.5
	AC162D	None / EL	0.55 x 0.65	0.60 x 0.70	2.95 x 5.55	64.0 x 17.2	84.0 x 44.0 x 10.0
		Edge LED	0.55 x 0.65	0.60 x 0.70	2.95 x 5.55	64.0 x 17.2	84.0 x 44.0 x 11.0
		LED	0.55 x 0.65	0.60 x 0.70	2.95 x 5.55	64.0 x 17.2	84.0 x 44.0 x 14.5
	AC162E	None / EL	0.92 x 1.10	0.98 x 1.16	4.84 x 8.06	99.0 x 24.0	122.0 x 44.0 x 10.5
		LED	0.92 x 1.10	0.98 x 1.16	4.84 x 8.06	99.0 x 24.0	122.0 x 44.0 x 14.5
16 x 4	AC164A	None / EL	0.55 x 0.55	0.60 x 0.60	2.95 x 4.75	61.4 x 25.0	87.0 x 60.0 x 11.0
		LED	0.55 x 0.55	0.60 x 0.60	2.95 x 4.75	61.4 x 25.0	87.0 x 60.0 x 14.0
20 x 2	AC202A	None / EL	0.60 x 0.65	0.65 x 0.70	3.20 x 5.55	83.0 x 18.5	116.0 x 37.0 x 10.0
		LED	0.60 x 0.65	0.65 x 0.70	3.20 x 5.55	83.0 x 18.5	116.0 x 37.0 x 14.5
	AC202B	None / EL	1.12 x 1.12	1.22 x 1.22	6.00 x 9.66	149.0 x 23.0	180.0 x 40.0 x 9.5
		LED	1.12 x 1.12	1.22 x 1.22	6.00 x 9.66	149.0 x 23.0	180.0 x 40.0 x 15.0
20 x 4	AC202D	LED	1.10 x 1.50	1.20 x 1.60	5.9 x 12.7	147.0 x 35.2	182.0 x 60.0 x 14.0
		None / EL	0.55 x 0.55	0.60 x 0.60	2.95 x 4.75	76.0 x 25.2	98.0 x 60.0 x 10.5
	AC204A	LED	0.55 x 0.55	0.60 x 0.60	2.95 x 4.75	76.0 x 25.2	98.0 x 60.0 x 14.5
24 x 2	AC204B	None	0.92 x 1.10	0.98 x 1.16	4.84 x 9.22	123.0 x 42.5	146.0 x 62.5 x 10.5
		LED	0.92 x 1.10	0.98 x 1.16	4.84 x 9.22	123.0 x 42.5	146.0 x 62.5 x 14.5
	AC242A	None / EL	0.60 x 0.65	0.65 x 0.70	3.20 x 5.55	94.5 x 18.0	118.0 x 36.0 x 9.5
		LED	0.60 x 0.65	0.65 x 0.70	3.20 x 5.55	94.5 x 18.0	118.0 x 36.0 x 14.7
40 x 1	AC401A	None	0.60 x 0.70	0.65 x 0.75	3.2 x 8.2	154.0 x 16.5	182.0 x 33.5 x 10.5
40 x 2	AC402A	None / EL	0.60 x 0.65	0.65 x 0.70	3.20 x 5.55	154.0 x 16.5	182.0 x 33.5 x 10.5
		LED	0.60 x 0.65	0.65 x 0.70	3.20 x 5.55	154.0 x 16.5	182.0 x 33.5 x 14.0
40 x 4	AC404A	None / EL	0.50 x 0.55	0.57 x 0.62	2.78 x 4.89	147.0 x 29.5	190.0 x 54.0 x 10.5
		LED	0.50 x 0.55	0.57 x 0.62	2.78 x 4.89	147.0 x 29.5	190.0 x 54.0 x 14.0

• E3V/5V available by built DC/DC converter.

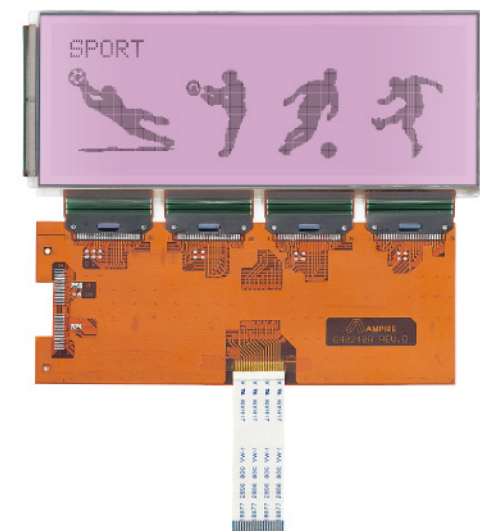
TAB TYPE LCD  
MODULE SERIES

AT

Dots (W x H)	Model	Back-light Touch Panel	Dot size (W x H)	Dot pitch (W x H)	View area (W x H)	Module size (W x H x T Max)	Built-in Controller
112 x 64	AT11264FFI	None	0.245 x 0.31	0.26 x 0.325	33.6 x 22.3	36.6 x 65.8 x 1.6	ST7565P-F1
128 x 64	AT12864I	None	0.34 x 0.38	0.37 x 0.41	54.0 x 31.0	58.0 x 54.5 x 1.9	SED1565/ST7565
	AT12864M	None	0.39 x 0.51	0.43 x 0.55	60.0 x 39.0	64.0 x 66.5 x 5.5	SED1565/ST7565
128 x 128	AT128128H1	None	0.199 x 0.219	0.213 x 0.233	30.5 x 32.0	36.3 x 82.8 x 1.4	HD66750S
	AT128128K1	LED	0.34 x 0.34	0.35 x 0.35	54.0 x 50.0	72.0 x 105.6 x 5.5	HD66750S
160 x 160	AT160160A	None	0.33 x 0.33	0.35 x 0.35	60.1 x 60.0	69.0 x 69.5 x 6.5	RA8835
		EL	0.33 x 0.33	0.35 x 0.35	60.1 x 60.0	69.0 x 69.5 x 7.0	
		Touch Panel	0.33 x 0.33	0.35 x 0.35	60.1 x 60.0	69.0 x 69.5 x 8.5	NT7701
		LED	0.33 x 0.33	0.35 x 0.35	60.1 x 60.0	69.0 x 69.5 x 8.9	
160 x 240	AT160240B	EL+T/P	0.31 x 0.295	0.325 x 0.31	58.9 x 77.8	70.0 x 90.5 x 4.8	*
240 x 160	AT240160B	None	0.225 x 0.225	0.24 x 0.24	67.6 x 47.5	74.6 x 54.9 x 7.0	RA8835
		EL	0.225 x 0.225	0.24 x 0.24	67.6 x 47.5	74.6 x 54.9 x 6.0	
		Touch panel	0.225 x 0.225	0.24 x 0.24	67.6 x 47.5	74.6 x 54.9 x 7.0	RA8835
		None/EL	0.225 x 0.225	0.24 x 0.24	62.0 x 81.8	73.0 x 92.2 x 7.6	
320 x 240	AT320240Q4	Touch panel	0.225 x 0.225	0.24 x 0.24	62.0 x 81.8	73.0 x 92.2 x 9.0	RA8835
		White LED	0.225 x 0.225	0.24 x 0.24	62.0 x 81.8	73 x 93.3 x 6.7	
	AT320240Q5	Touch panel	0.225 x 0.225	0.24 x 0.24	62.0 x 81.8	73 x 93.3 x 8.6	RA8835
		White LED	0.225 x 0.225	0.24 x 0.24	62.0 x 81.8	85 x 99.3 x 6.7	
	AT320240Q6	Touch panel	0.225 x 0.225	0.24 x 0.24	62.0 x 81.8	85 x 99.3 x 8.6	RA8835
		CCFL/ LED	0.345 x 0.345	0.36 x 0.36	122.0 x 92.0	166.0 x 109.0 x 7.0	

- Full series of wide temperature.
- Temperature range: Normal type: Operating temp: 0~50°C.  
Wide temperature type: Operating temp: -20°C~+70°C

- Optional with pure driver or controller version.
- White LED available for Graphic Module. (Details please contact with sale people.)



COF TYPE LCD  
MODULE SERIES

AF

Dots (W x H)	Model	Back-light Touch Panel	Dot size (W x H)	Dot pitch (W x H)	View area (W x H)	Module size (W x H x T Max)	Built-in Controller
128 x 128	AF128128C2	LED(White)	0.199 x 0.219	0.213 x 0.233	30.5 x 32.0	36.3 x 83.5 x 1.4	HD66750S
	AF128128K	LED(Y-G)	0.34 x 0.34	0.35 x 0.35	54.0 x 50.0	72.4 x 112.7 x 6.5	HD66750S
160 x 128	AF160128A	LED(Y-G,B,W)	0.26 x 0.26	0.28 x 0.28	51.8 x 38.9	57.8 x 81.0 x 6.8	SED15E06
240 x 160	AF240160E	LED(Y-G/White)	0.23 x 0.23	0.24 x 0.24	63.0 x 42.5	81.0 x 115.5 x 6.5	UC1611

COG TYPE LCD  
MODULE SERIES

AO

Dots (W x H)	Model	Back-light Touch Panel	Dot size (W x H)	Dot pitch (W x H)	View area (W x H)	Module size (W x H x T Max)	Built-in Controller
16 x 2	AO162Z	None	0.5 x 0.5	0.55 x 0.55	56.0 x 24	60.0 x 66.0 x 3.0	SPLC093D
128 x 64	AO12864B1	LED light-guide	0.349 x 0.418	0.364 x 0.433	49.6 x 31.0	54.6 x 92.2 x 5.8	SED1565
	AO12864AE	White LED	0.28 x 0.34	0.32 x 0.38	45.2 x 27.0	55.2 x 61.8 x 6.0	ST7567
	AO12864T	White LED	0.355 x 0.355	0.38 x 0.38	52.6 x 27.5	59 x 65.4 x 7.2	ST7565
	AO12864X	White LED	0.485 x 0.485	0.5 x 0.5	66.8 x 35.5	89.7 x 111.7 x 6	ST7565
132 x 32	AO13232A	LED light-guide	0.67 x 0.56	0.71 x 0.6	98.0 x 23.0	113.0 x 34.0 x 17.6	ST7588
132 x 64	AO13264A	LED light-guide	0.64 x 0.55	0.68 x 0.59	95.0 x 40.0	110.0 x 59.0 x 17.6	ST7588
192 x 64	AO19264C	White LED	0.485 x 0.485	0.508 x 0.508	104.0 x 39.0	112.0 x 50.0 x 10.3	NT7553