



# Mono Graphic LCD-2009



## Features

- ❑ STN (Grey, Yellow/Green & blue) & FSTN Technologies.
- ❑ COB, TAB, COF and COG technologies.
- ❑ LED backlighting options both array and edge lit types (White, Blue, Yellow/Green, Amber, Red, Pure Green, RGB) as standard.
- ❑ Positive and Negative mode options (positive: dark characters illuminated background, negative: lit characters on a dark background).
- ❑ Single voltage wide operating temperature (-20~+70°C).
- ❑ Single 3.3V or 5V input voltage versions available in most resolutions.
- ❑ Controller on-board versions (Toshiba T6963C, Epson S1D13700, RAIO RA8835 equivalent to the SED1335, Samsung S6B1713)
- ❑ Integrated 4-Wire Resistive touch options including integrated touch controller.

## COB (Chip-on-board) Versions

Product Series	Format (Dots)	Outline	Viewing Area	Active Area	Dot Size	Controller	Backlight Options	Touch Panel
BG9832B	98x32	52x44	46x18.5	43.08x15.46	0.4x0.45	SBN1661G	NONE, LED	
BG9832C	98x32	66x30	46x18.5	43.08x15.46	0.4x0.45	SBN1661G	NONE, LED	
BG12232A	122x32	84x44	60x18	53.64x15.64	0.40x0.45	SBN1661G	NONE, LED	
BG12232A1	122x32	84x44	60x18	53.64x15.64	0.40x0.45	SBN1661G	NONE, LED	
BG12232B	122x32	65.8x27.1	60.5x18.5	53.6x15.64	0.40x0.45	SBN1661G	NONE, LED	
BG12232D	122x32	80x36	60x18	53.64x15.64	0.4x0.45	SBN1661G	NONE, LED	
BG12232D1	122x32	80x36	60x18	53.64x15.64	0.4x0.45	SBN1661G	NONE, LED	
BG12832B	128x32	59x29.3	56.3x19.4	47.97x11.97	0.345x0.345	SED15601	NONE, LED	
BG128128A	128x128	72.4x70	49x49	44.77x44.77	0.32x0.32	LC7981	NONE, LED	
BG128128B	128x128	85x100	62x62	55.01x55.01	0.4x0.4	T6963C	NONE, LED	
BG128128E	128x128	92x106	73x73	70.35x70.35	0.5x0.5	T6963C	NONE, LED	X
BG12864A	128x64	93x70	72x40	66.52x33.24	0.48x0.48	SBN1661G	NONE, LED	X
BG12864A2	128x64	93x70	72x40	66.52x33.24	0.48x0.48	SBN1661G	NONE, LED	X
BG12864B	128x64	93x70	72x40	66.52x33.24	0.48x0.48	ST7920	NONE, LED	
BG12864C	128x64	80x70	72x40	66.52x33.24	0.48x0.48	SBN6400G	NONE, LED	
BG12864C1	128x64	78x70	62x44	56.3x38.38	0.42x0.58	SBN6400G	NONE, LED	
BG12864D	128x64	78x70	62x44	56.28x38.36	0.4x0.56	T6963C	NONE, LED	
BG12864E	128x64	75x52.7	60x32.6	55.0x27.48	0.39x0.39	SBN6400G	NONE, LED	
BG12864F	128x64	87x70	72x40	66.52x33.24	0.48x0.48	T6963C	NONE, LED	X
BG12864H	128x64	54x50	43.5x29	40.92x26.92	0.28x0.35	SBN6400G	NONE, LED	
BG160112a	160X112	94x80	74x54	68.77x48.13	0.4x0.4	T6963C	NONE, LED	
BG160128A	160x128	150x112	101x82	92.76x74.2	0.54x0.54	T6963C	NONE, CCFL	
BG160128B	160x128	129x102	101x82	92.76x74.22	0.54x0.54	T6963C	NONE, LED	
BG160160A	160x160	89.2x85	62x62	60.76x60.76	0.34x0.34	NONE	NONE, LED	
BG160160C	160x160	89.2x85	62x62	60.76x60.76	0.34x0.34	LC7981	NONE, LED	
BG16032A	160x32	116x37	85x18.6	79.95x15.95	0.45x0.45	ST7920	NONE, LED	
BG16080A	160x80	100x54	72.3x37.8	67.17x33.5	0.39x0.39	T6963C	NONE, LED	X
BG16080B	160x80	100x54	72.3x37.8	67.17x33.5	0.39x0.39	LC7981	NONE, LED	X
BG19264A	192x64	93x70	72x40	78.67x26.19	0.36x0.36	SBN6400G	NONE, LED	
BG240128A	240x128	170x103.5	132x76	119.97x63.97	0.47x0.47	T6963C	NONE, LED, CCFL	X
BG240128G	240x128	170x103.5	129x75	119.97x63.97	0.47x0.47	SED1335	NONE, LED, CCFL	X
BG240128B2	240x128	144x104	114x64	107.98x57.58	0.43x0.43	T6963C	NONE, LED, CCFL	X
BG240128B3	240x128	144x104	114x64	107.98x57.58	0.43x0.43	LC7981	NONE, LED, CCFL	X
BG240128E	240x128	144x104	114x64	107.98x57.58	0.43x0.43	None	NONE, LED, CCFL	X
BG240128E1	240x128	144x104	114x64	107.98x57.58	0.43x0.43	None	NONE, LED, CCFL	X
BG24064A	240x64	180x65	133x39	127.16x33.88	0.49x0.49	T6963C	NONE, LED, CCFL	X
BG24064B	240x64	180x65	133x39	127.16x33.88	0.49x0.49	LC7981	NONE, LED, CCFL	X

BG24064C	240x64	180x65	133x39	127.16x33.88	0.49x0.49	ST7920	LED, EL, CCFL	X
BG24064D	240x64	180x65	133x39	127.16x33.88	0.49x0.49	None	NONE, LED, CCFL	X
BG24064E	240x64	180x63	139x39	127.16x33.88	0.49x0.49	T6963C	NONE, LED, CCFL	X
BG320240A	320x240	166.8x109	122x92	115.18x86.38	0.34x0.34	None	NONE, LED CCFL	X
BG320240B	320x240	148x120.2	120.1x92.1	115.18x86.38	0.34x0.34	SED13700	NONE,LED, CCFL	X
BG320240B1	320x240	155.4x120.2	122x92	115.18x86.38	0.34x0.34	SED1335	NONE, LED, CCFL	X
BG320240C	320x240	142x96	104x79.3	95.97x71.97	0.27x0.27	NONE	NONE, CCFL	X
BG320240F	320x240	166.8x109	122x92	115.18x86.38	0.34x0.34	SED1335	LED, EL, CCFL	X
BG320240F2	320x240	166.8x109	122x92	115.18x86.38	0.34x0.34	S1D13700	LED, EL, CCFL	X
BG320240F-20b	320x240	162.8x109	122x92	115.18x86.38	0.34x0.34	S1D13700	NONE, LED, CCFL	X

## COG (Chip-on-Glass) Versions

Product Series	Format (dots)	Outline	Viewing Area	Active Area	Dot Size	Controller	Backlight Options	Touch Panel
BO8032A	80x32	44x30	40x17.4	38.37x15.33	0.45x0.45	KS0713	NONE , LED	
BO9649A	96x49	40x30	30x20	28.67x18.09	0.30x0.33	S1D15606D00B	NONE, LED	
BO9864A	98x64	37x33	34x22.2	29.38x19.18	0.28x0.28	SSD1815	NONE, LED	
BO9864B	98x64	34x34	31x22.5	27.42x21.1	0.26 x0.31	ST7548i	NONE, LED	
BO12832A	128x32	82x34	79x24.2	72.92x20.12	0.53x0.59	PCF8531	NONE, LED	
BO12864B	128x64	72x47	68x36	63.97x31.97	0.47x0.47	SED1565	NONE, LED	
BO12864D1	128x64	52x42	48x31	44.77x27.49	0.32x0.4	ST7541	NONE, LED	
BO12864E	128x64	80x54	70.7x38.8	66.52x33.24	0.48x0.48	ST7565	NONE, LED	
BO12864E1	128x64	80x54	70.7x38.8	66.52x33.24	0.48x0.48	ST7565	NONE, LED	
BO12864E2	128x64	80x54	70.7x38.8	66.52x33.24	0.48x0.48	ST7565	NONE, LED	
BO12864G	128x64	76x50	72x39	66.53x33.25	0.48x0.48	ST7588T	NONE, LED	
BO12864H	128x64	38x26.4	29.58x17.98	25.58x15.98	0.18x0.23	ST7565	NONE, LED	
BO12864I	128x64	56x47	52x33.5	47.34x26.86	0.35x0.40	ST7565	NONE, LED	X
BO128128B	128x128	56x64	50x50	44.77x44.77	0.32x0.32	ST7541i	NONE, LED	
BO128128C	128x128	36.3x44.7	30.5x32.0	27.25x29.81	0.199x0.199	ST7528	NONE, LED	
BO320240B	320x240	129.4x94.0	99.85x77.0	95.985x71.98	0.285x0.285	NONE	NONE, LED, CCFL	

## TAB/TCP (Tape Automated Bonding) Versions

Product Series	Format (dots)	Outline	Viewing Area	Active Area	Dot Size	Controller	Backlight Options	Touch Panel
BP160160A	160x160	69x69.5	60.1x60	55.985x55.985	0.335x0.335	None	NONE, LED, EL	X
BP160160B	160x160	69x69.5	60.1x60	55.985x55.985	0.335x0.335	RA8835	NONE, LED, EL	X
BP160160D	160x160	56x56	49.0x49.0	44.77x44.77	0.25x0.25	S1D13700	NONE, LED	
BP240128B2	240x128	129x78	114.98x63.58	107.98x57.58	0.43x0.43	UC1608	NONE, LED	X
BP240160B	240x160	88.2x59	66x46	57.58x38.38	0.225x0.225	RA8835	NONE, LED, EL	X
BP240160C	240x160	88.2x59	66x46	57.58x38.38	0.225x0.225	None	NONE, LED, EL	X
BP320240A	320x240	92.2x73.3	62.2x81.4	76.78x57.58	0.225x0.225	None	NONE, EL	X
BP320240C	320x240	85x98.2	81.4x62.2	76.78x57.58	0.225x0.225	RA8835	NONE, EL	X
BP320240C1	320x240	85x98.2	81.4x62.2	76.78x57.58	0.225x0.225	S1D13700	NONE, EL	X
BP320240D	320x240	85x98.2	81.4x62.2	76.78x57.58	0.225x0.225	None	NONE, EL	X
BP320240E	320x240	85x98.2	81.4x62.2	76.78x57.58	0.225x0.225	RA8835	NONE, LED	X
BP320240E1	320x240	85x98.2	81.4x62.2	76.78x57.58	0.225x0.225	S1D13700	NONE, LED	X
BP320240E20b	320x240	99.3x85	81.8x62.0	76.785x57.585	0.225x0.225	S1D13700/USB	NONE, LED	X
BP320240F	320x240	85x98.2	62.2x81.4	57.58x76.68	0.225x0.225	None	NONE, LED	X
BP320240G	320x240	92x71.3	81x62	76.785x57.585	0.22x0.22	None	NONE, LED	X
BP320240H	320x240	92x71.3	81x62	76.785x57.585	0.22x0.22	RA8835	NONE, LED	X

## COF (Chip on Flex) Versions

Product Series	Format (dots)	Outline	Viewing Area	Active Area	Dot Size	Controller	Backlight Options	Touch Panel
BF128128E	128x128	36.3x38.9	30.5x32	27.25x29.81	0.213x0.213	HD66750	NONE, LED	X



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