

# POWERTIP Monochrome Graphic LCD



## Features

- ❑ STN, FSTN and FFSTN Technologies.
- ❑ COB, TAB, COF and COG technologies.
- ❑ LED including both array and low power edge lit types (Yellow/Green and white), EL (White and Turquoise blue) and CCFL backlighting (white) backlighting options available as standard.
- ❑ Wide operating temperature (-20~ +70°C) options.
- ❑ On-Board graphic LCD controller versions (Toshiba T6963C and Epson S1D13700).
- ❑ Integrated resistive touch overlays.
- ❑ Single 5V or 3.3V options with on-board negative voltage generator and temperature compensation circuitry.

Product Series	Format (Dots)	Tech	Outline	Active Area	Dot Size	Dot Pitch	Controller	Backlight Options
PG320240-C	320x240	SMT	150.5x96.8	95.97x71.97	0.27x0.27	0.30x0.30	None	EL, LED, CCFL
PG320240-D	320x240	SMT	148.02x120.24	115.17x86.37	0.33x0.33	0.36x0.36	S1D13700	LED, CCFL
PG320240-H-P2	320x240	TAB	92.0x71.7	76.78x57.58	0.22x0.22	0.24x0.24	None	EL, LED
PG320240-M	320x240	TAB	167.0x111.0	115.19x86.39	0.345x0.345	0.36x0.36	None	LED, CCFL
PE320240-001	320x240	COG	143.0x96.8	95.0x98.5	0.285x0.285	0.30x0.30	None	LED
PE320240-002	320x240	COG	153.54x120.24	115.18x86.38	0.34x0.34	0.36x0.36	S1D13700	LED
PG240160-B	240x160	TAB	74.6x54.9	57.59x38.59	0.225x0.225	0.24x0.24	None	EL
PG240128-A	240x128	SMT	144.0x104.0	107.95x57.55	0.40x0.40	0.45x0.45	T6963C	EL, LED, CCFL
PG240128-B	240x128	SMT	144.0x104.0	107.95x57.55	0.40x0.40	0.45x0.45	None	EL, LED
PE240128-001	240x128	COG	99.2x64.2	82.775x44.135	0.32x0.32	0.345x0.345	None	LED
PG24064-A	240x64	SMT	180.0x65/75.0	127.16x33.88	0.49x0.49	0.53x0.53	LC7981	EL, LED, CCFL
PG24064-E/F	240x64	SMT	180.0x65.0	127.16x33.88	0.49x0.49	0.53x0.53	T6963C	EL, LED, CCFL
PG24064-G	240x64	SMT	180.0x65.0	127.16x33.88	0.49x0.49	0.53x0.53	None	EL, LED, CCFL
PG24064-M	240x64	SMT	210.0x72.0	170.35x45.39	0.66x0.66	0.71x0.71	SED1565	CCFL
PE24064-001	240x64	COG	120.0x44.82	98.38x26.22	0.39x0.39	0.41x0.41	None	LED
PE160240-001	160x240	COG	52.4x70.1	38.38x57.58	0.22x0.22	0.24x0.24	None	EL
PE160160-001	160x160	COG	69.2x69.2	55.985x55.985	0.335x0.335	0.35x0.35	None	None
PE160160-001-P1	160x160	COG	70.2x89.5	55.985x55.985	0.335x0.335	0.35x0.35	None	EL
PE160160-001-P2	160x160	COG	69.2x69.2	55.985x55.985	0.335x0.335	0.35x0.35	S1D13700	EL
PG16032-B	160x32	COB	116.0x44.0	94.36x18.84	0.55x0.55	0.59x0.59	S1D15200D	EL, LED
PE13264-002	132x64	COG	87.5x51.0	72.55x35.15	0.55x0.55	0.60x0.60	S17565S	None
PG128128-A	128x128	SMT	85.0x100.0	55.01x55.01	0.40x0.40	0.43x0.43	T6963C	EL, LED
PG12864-A/K	128x64	SMT	93.0x70.0	66.52x33.24	0.48x0.48	0.52x0.52	S6B0107B/8A	EL, LED
PG12864-F	128x64	SMT	78.0x70.0	56.27x38.35	0.39x0.55	0.44x0.60	T6963C	EL, LED
PG12864-J	128x64	COB	75.0x52.7	55.01x27.49	0.39x0.39	0.43x0.43	S6B0107B/8A	EL, LED
PG12864-N	128x64	TAB	55.2x37.8	40.92x24.28	0.28x0.34	0.32x0.38	LH155Ba5	LED
PG12864-O	128x64	TAB	80.0x54.0	66.52x33.24	0.48x0.48	0.52x0.52	LH155BA5	LED
PG12864-Q	128x64	TAB	90.5x52.0	58.84x35.15	0.42x0.46	0.50x0.55	SED1565T04	LED
PE12864-001	128x64	COG	53.2x37.8	40.92x24.28	0.28x0.34	0.32x0.38	ST7565S	EL, LED
PE12864-004	128x64	COG	76.1x63.2	66.52x33.24	0.48x0.48	0.52x0.52	ST7565S	EL, LED
PE12864-007	128x64	COG	45.0x27.5	28.14x14.06	0.20x0.20	0.22x0.22	SSD1815	EL
PG12232-A	122x32	COB	84.0x44.0	53.64x15.64	0.40x0.45	0.44x0.49	S1D15200D	EL, LED
PG12232-B	122x32	COB	80.0x36.0	53.64x15.64	0.40x0.45	0.44x0.49	S1D15200D	EL, LED
PG12232-C	122x32	COB	98.0x60.0	69.5x20.76	0.53x0.61	0.57x0.65	S1D15200D	LED
PG12232-E-33	122x32	COB	65.4x29.1	48.76x14.36	0.36x0.41	0.40x0.40	S1D15200D	LED
PG12032-D	120x32	COB	68.1x38.9	56.35x20.75	0.42x0.60	0.47x0.65	S1D15200D	LED
PE10264-001	102x64	COG	34.0x35.0	27.52x20.46	0.25x0.30	0.27x0.32	ST7565S	None
PE9664-001	96x64	COG	34.0x43.7	23.98x15.98	0.23x0.23	0.25x0.25	SSD1815BZ	None
PG9832-A	98x32	COB	52.0x44.0	43.08x15.64	0.40x0.45	0.44x0.49	S1D15200D	LED
PG9732-A	97x32	TAB	47.5x53.6	38.84x14.35	0.32x0.40	0.37x0.45	S1D15300T	None
PG9732-B	97x32	TAB	42.0x52.6	33.0x17.22	0.28x0.39	0.32x0.43	S1D15300T	None
PG9732-C	97x32	TAB	49.7x31.3	35.84x14.35	0.32x0.40	0.37x0.45	S1D15300T	LED



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