imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

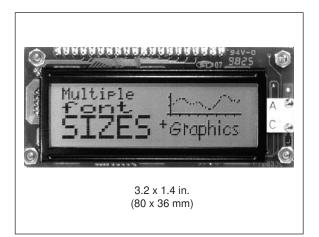
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Data Sheet G12032 • v1.1 • 01/99

Serial LCD with 120x32-pixel Graphics and Four Font Sizes

The G12032 offers 120-by-32-pixel graphics and tremendous font flexibility at a bargain price. It interfaces with a computer through a 2400 or 9600-baud RS-232 serial hookup.



Mini Serial Terminal with Multiple Font Sizes

The G12032 works like a serial-receive terminal. It can display text in four different font sizes, allowing you to format the screen as 4 lines of 20 small characters or 2 lines of 10 large characters, or mix font sizes freely to achieve special effects.

The display understands common control characters like carriage returns, linefeeds, tabs, backspace, etc. Special characters allow cursor positioning and backlight control. Most text commands are the same as those for our advanced (BPP- and ILM-) text displays.

Versatile Graphics Display with Image Storage

Plotting points, drawing lines, and displaying full-screen pictures are easy with the G12032's graphics instructions. Its 4kB EEPROM, which retains data with power off, stores the text font plus six screen images. You can create or edit fonts and graphics on your PC, then download them to the G12032 using the included utility program.

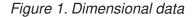
A 160-character alphanumeric font and example graphics come preloaded in EEPROM. Need more characters/symbols? The G12032 lets you use part or all of its graphics memory for additional fonts, for a total of up to 640 characters.

Exceptional Value

We pulled out all the stops to make the G12032 the most versatile, economical serial display on the market. It's priced lower than some comparable alphanumeric displays. Within a minute of opening the box you can have this display running a built-in demo (9V battery or 5V supply required). The standard package includes a 3.5" disk with extensive hyperlinked HTML manual (use any web browser to view), a graphics conversion/downloading utility, and program examples.

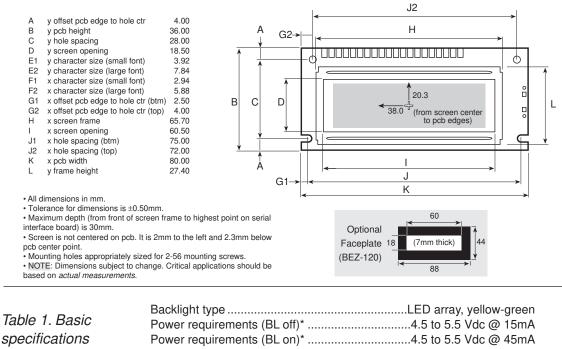
Ordering Information

G12032 Serial Graphics LCD with manual/utilities on disk (SGX-120L)	99.00
Mounting kit for G12032 with faceplate, hardware (BEZ-120)	12.00



Data Sheet G12032 • v1.1 • 01/99





e T. Dasic	Power requirements (BL off)*4.5 to 5.5 Vdc @ 15r	nΑ
cifications	Power requirements (BL on)*4.5 to 5.5 Vdc @ 45r	mΑ
	User connector five 0.025" posts on 0.10" center	ers
	Connector pinout (5-pin)+5 GND SER GND	+5
	Serial inputRS-232, or inverted TTL/CMOS, 9600 or 2400, N	181
	Serial data rates	ps
	Operating temperature0° to 50°C (32° to 122	°F)
	* NOTE: Unit includes an input for 9V unregulated power; 9V battery suggested.	

Table 2. Text control characters and graphics instructions by function

Text Control Codes			Graphics Escape Sequences		
Function	Code	ASCII	Function	Escape Sequence	
Cursor home	ctrl-A	1	Set screen address for byte write	ESC A x y	
Begin inverse-video text	ctrl-B	2	Write byte value n to present screen address	ESC B n	
End inverse-video text	ctrl-C	3	Download full-screen graphic (480 bytes)	ESC D G	
ignored	ctrl-D	4	Display EEPROM screen n (n=0-7)	ESC E n	
ignored	ctrl-E	5	Set font size and EEPROM source page to n	ESC F n	
ignored	ctrl-F	6	Set "ink" for points and lines to n; 1=black, 0=white	ESC I n	
ignored	ctrl-G	7	Plot a line from x1 y1 to x2 y2	ESC L x1 x2 y1 y2	
Backspace	ctrl-H	8	Set graphics mode to n; 0=OR, 1=XOR	ESC M n	
Horizontal tab (go to next 4x column)	ctrl-I	9	Plot a point at x y	ESC P x y	
Smart linefeed (go down one line)	ctrl-J	10	Reverse (invert) lines by n	ESC R n	
Vertical tab (go up one line)	ctrl-K	11	Plot line from last line end to x y	ESC T x y	
Formfeed (clear text screen)	ctrl-L	12	Set vertical origin to top (n=0) or bottom (n=1)	ESC V n	
Carriage return	ctrl-M	13	Write startup configuration data to EEPROM	ESC W n	
Backlight on	ctrl-N	14	Transfer image from graphics layer to EEPROM screen n (0-7)	ESC X n	
Backlight off	ctrl-O	15			
Accept cursor-position entry	ctrl-P	16	NOTE: At startup, the screen is cleared, and all graphics settings are 0 except lnk,		
Accept data for right alignment	ctrl-R	18	which is 1 (to plot dark pixels on a light background).		
Escape (begin graphics instruction)	ctrl-[27			