

Product Sheet Graphic LCD Displays

Jefi Services imports quality Graphic and standard character LCD displays from Overseas. They are manufactured to a certified ISO9001 quality system.

The following products represent the standard graphical LCD products available.

We can also assist with the following display types. Colour LCD module, LCD panel, segment type LCD displays, Character (Alphanumeric) type displays and custom LCD panels and custom LCD modules to suit your particular applications.

Pixel Format	Part Number	Module Size	Pixel Size	Active Area	Viewing Area
WxH(mm)		WxH(mm)	WxH(mm)	WxH(mm)	WxH(mm)
144x32	LM3037	80.8x35.0	0.38x0.38	64.6x16.0	75.0x31.0
160x32	LM16032D	116.0x35.0	0.44x0.44	83.0x18.6	108.0x29.0
160x32	LM3123	99.7x31.5	0.30x0.35	72.8x16.0	85.2x23.0
202x32	LM3121	231.0x53.6	0.88x1.08	188.0x38.0	223x45.6
320x32	LM6051	182.0x35.0	0.42x0.39	154.4x15.8	175.0x26.5
128x64	LM12864D	113.0x65.0	0.48x0.48	71.7x39.0	105.0x53.0
128x64	LM6021	93.0x70.0	0.48x0.48	71.7x39.0	88.0x65.0
128x64	LM3033	93.0x70.0	0.48x0.48	71.7x39.0	88.0x65.0
128x64	LM12864L	93.0x70.0	0.48x0.48	71.7x39.0	88.0x65.0
128x64	LM6038	92.7x53.8	0.43x0.42	63.0x33.0	86.0x26.0
128x64	LM12864F	78.0x70.0	0.39x0.55	62.0x44.0	68.0x65.0
128x64	LM12864T	78.0x70.0	0.39x0.55	62.0x44.0	68.0x65.0
128x64	LM12864M	73.0x42.0	0.37x0.37	55.0x30.6	67.5x34.0
128x64	LM6029	59.6x50.6	0.36x0.4	53.6x31.0	52.6x48.4
128x64	LM6059	50.9x40.9	0.252x0.33	37.0x28.0	48.5x38.1
160x64	LMS0192	79.0x42.3	0.30x0.34	61.0x29.3	76.0x32.0
192x64	LM19264K	130.0x65.0	0.47x0.47	104.0x39.0	121.0x53.0
192x64	LM19264B	120.0x62.0	0.47x0.47	104.0x39.0	105.0x57.0
192x64	LM19264F	108.0x55.0	0.36x0.36	84.0x31.0	91.0x50.0
192x64	LM19264A	100.0x60.0	0.36x0.36	84.0x31.0	93.0x55.0
240x64	LM24064D	180.0x62.0	0.49x0.49	134.0x41.0	176.0x54.0
240x64	LM6066	180.0x62.0	0.49x0.49	134.0x41.0	176.0x54.0
240x64	LM24064K	149.0x57.0	0.44x0.44	117.0x37.0	145.0x46.0
256x64	LM6800	137.0x39.6	0.37x0.37	108.6x29.6	130.5x32.0
160x80	LM8053	93.0x70.0	0.395x0.395	71.7x39.0	88.0x65.0
160x80	LM16080	59.6x50.6	0.29x0.32	53.0x30.2	52.6x48.4
128x96	LM9033A	63.8x47.4	0.385x0.285	57.2x33.8	---
192x128	LM19501	98.0x86.0	0.35x0.35	77.5x54.0	89.5x78.0
192x128	LM1095	92.7x72.0	0.35x0.35	77.5x54.0	89.5x66.0
240x128	LM240128N	144x104.0	0.42x0.42	114.0x64.0	138.0x97.0
240x128	LM240128	144x104.0	0.42x0.42	114.0x64.0	138.0x97.0
320x160	LM320160C	120.0x54.0	0.245x0.235	92.5x43.9	118.5x41.5
320x240	LM2068	99.5x71.1	0.24x0.24	79.8x60.6	96.3x65.1
320x240	LM2028	166.0x109.0	0.33x0.33	122.0x92.0	152.0x101.0
320x240	LM2029	166.0x109.0	0.33x0.33	122.0x92.0	152.0x101.0

Features:-

TN, STN, FSTN Types. Gray, Yellow Green or Negative Backgrounds.

Super Low power options, Built in supply booster. Parallel and serial interface option.

3V or 5V logic supply. White CCFL back-light, LED back-light in Green, Amber, Yellow-green, White, Blue. And EL back-lighting in white, blue-green and yellow-green.

The table above represent standard product lines. There are many other available that could suit your application.

Full mechanical drawings available and user manuals detailing electrical specifications and interface timing.

The Graphics LCD modules comes with a wide variety of features. For further information please contact Jefi Services (sales@jefiservices.com.au)

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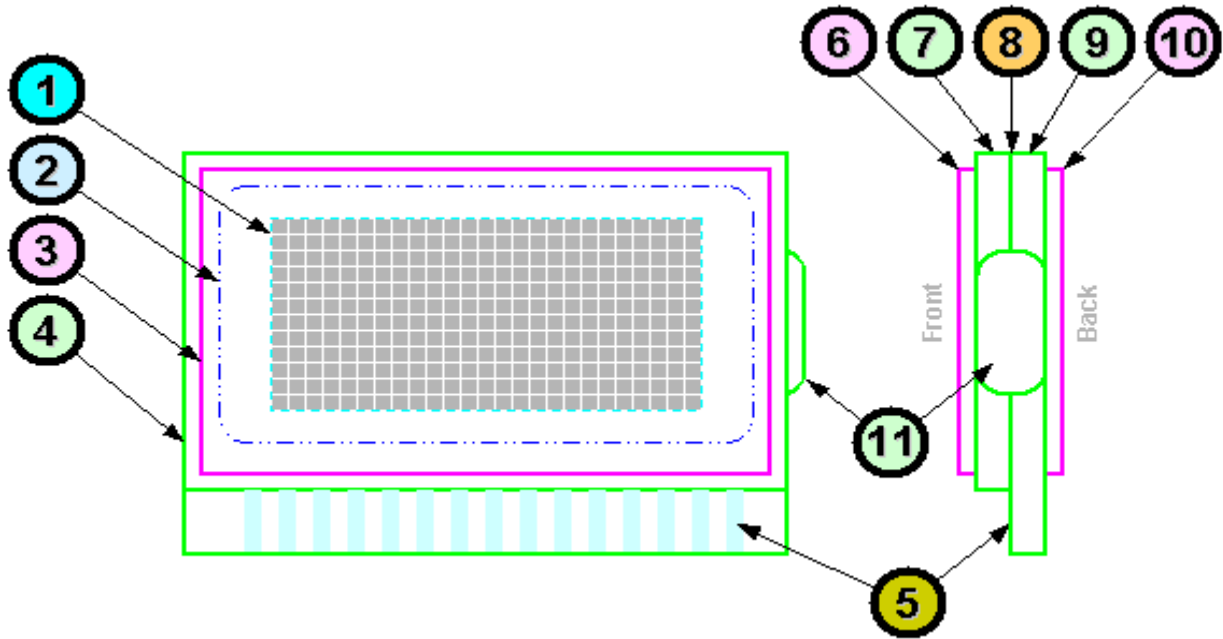
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LCD Terminology

No.	Name	Description
1	Active Area	Also called A.A. Area for active pixel or icons or segment or pattern
2	Viewing Area	Also called V.A. Area with no imperfection. The background should be same in this area.
3	Polariser	It is on both side of the Panel
4	LCD Panel	Consider as two glass + polariser
5	Terminal	Terminal for connecting to LCD driver IC
6	Upper Polariser	A transmissive Polariser
7	Upper Glass	Viewing side glass
8	LC gap	Liquid Crystal is trapped in this very thin gap between two glass
9	Lower Glass	Back side glass
10	Lower Polariser	A polariser with reflective or semi-reflective reflector
11	Sealing mold	Sealing of the LC gap entrance.



Compatible LCD Module List, Full Graphics Type

	Display Format	Epson	Data Image	Truly	Varitronix	Tian Ma	Hyundai	Others
LM12864D	128x64			MG-12864-2		TM12864A		
LM12864L	128x64		GM12641	MG-12864-1		TM12864L	HG12602	
LM12864F	128x64		GM12642	MG-12864-5	VPG12864-XX	TM12864F		
LM3033	128x64			MG-12864-32				SSC12K64D
LM6029	128x64					TM12864L-G		
LM6030	132x64							JY02217
LM19264A-R	192x64			MG-19264-1		TM19264A		
LM19264B	192x64			MG-19264-3				
LM19264D	192x64					TM19264D		
LMS195-F	192x128						HG19501	
LM24064B	240x64							HLM7262 HLM6244
LM24064D	240x64		GM24642	MG-24064-2	VGP24064-XX	TM24064B	HG24501	LM24014H
*LM2031	320x240	EG-8503B						
*LM2032	320x240							DMF-50174
LM2028	320x240	EG-8503B	GM32240	MSP-G320240DBCW-2N		TM320240D TM320240CCD		DMF50840 HDM3224-1 WM-G3224B

Notes: *: Under development