

AVNET EMBEDDED SPECIFICATION.

Datasheet
Varitronix
MDLS 162D65

Specification of LCD Module type

MDLS -162D65

1. General Description

- 16 Characters (5 x 8 Pixels) X 2 Line
- Integral Controller/Driver type equivalent to HD44780/KS0066 (application note available on request)
- STN, FSTN** Positive and Negative mode**
- Optional LED Backlight (note including Backlight will increase height of module (see drawing))
- Variety of Backlight colours Green, White**, Blue**, Red**, Amber **
- Temperature Ranges 0 to 50°C, -20 to 70°C**, -30 to 80°C**
- View angle 6 o'clock other options on special request**

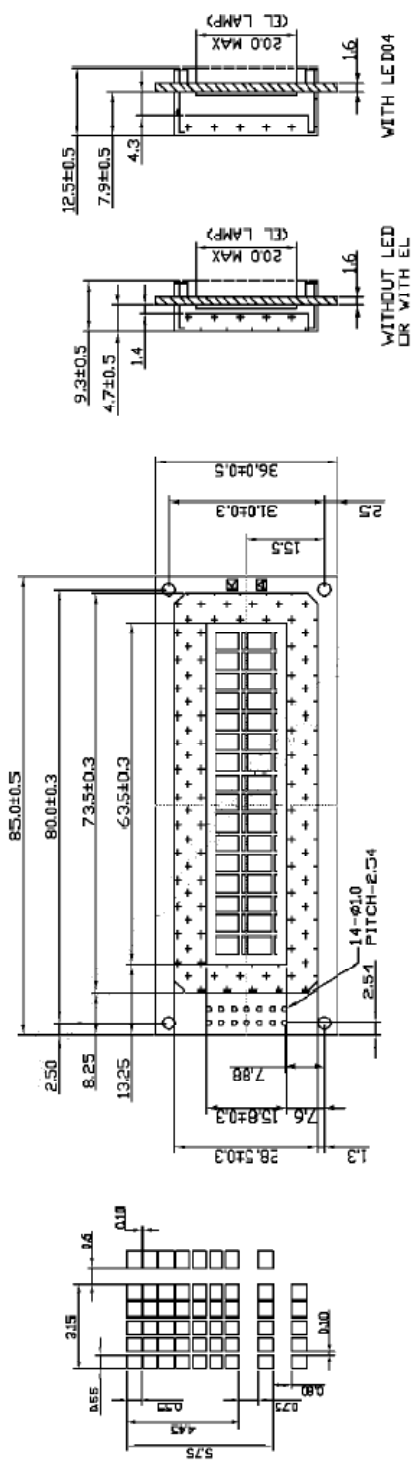
** Items marked are non standard options, and may carry factory MOQ. Please check with your local sales office for availability of the options.

2. Mechanical Specifications

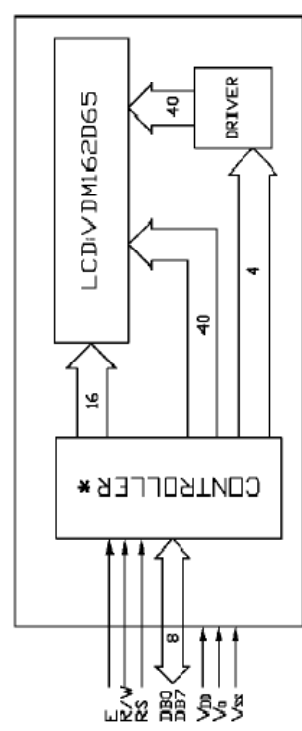
Table 1

Parameter	Specifications	Unit
Outline Dimensions	85.0 (W) x 36.0 (H) x 12.5 (D) max NOTE Depth (D) is lower without Backlight	mm
View Area VA	63.5.0 (W) x 15.8 (H)	mm
Format	16 Characters x 2 Line	
Character Size	3.15 (W) x 5.75 (H) 5 x 8 Pixels	mm
Character Spacing	0.60 (W) x 0.80 (H)	mm
Character Pitch	3.75 (W) x 6.55 (H)	mm
Pixel Size	0.55 (W) x 0.55 (H)	mm
Pixel Spacing	0.10 (W) x 0.10 (H)	mm
Pixel Pitch	0.65 (W) x 0.65 (H)	mm

ISSUE	AMENDMENT	DATE



14-PIN CONNECTION		1	2	3	4	5	6	7	8	9	10	11	12	13	14	A	K
YSS	VDD	VO	RS	B/W	E	DB0	DB1	DB2	DB3	DB4	DB5	DB6	DB7	LED(+)	LED(-)		



*SFLC780 OR EQUIVALENT

TITLE: SPECIFICATION OF MODULE			
PROJECT NO: MDLS162D65SP			
TOLERANCE VALUES DIMENSIONS UNLESS OTHERWISE SPECIFIED:	XX ±0.3 XXX ±0.1		
DIMENSIONS IN MM			
MATERIAL	FINISH		
SCALE: DO NOT ON SCALE	THICKNESS		
THIRD ANGLE PROJECTION	Φ=3		
DRAWN	HE JIANWEN	SIGN	DATE
CHECKED	MOIC MAN CHURN		01.09.01
APPROVED	ANDY LEUNG		
ITEM NO. MDLS162D65SP-XX			
DESCRIPTION: MDLS162D65SP-XX			
FILE NO: MDLS162D65SP-XX RO DWG		REV 0	
SHEET 1		OF 1	

VB VARITRONIX LIMITED

3. Interface Signals

Table 2

Pin No	Symbol	Description
1	Vss	Ground
2	Vdd	Power Supply for Logic (+5v)
3	Vo	Power Supply for LCD (Contrast)
4	R/S	Register Select Input 'High' for Data Register (for Read and Write) 'Low' for Instruction Register (for Write) Busy Flag, address counter (for Read)
5	R/W	Read/Write Signal 'High' for Read mode 'Low' for Write mode
6	E	Enable Start signal for Read/Write
7	DB0	Data input/output LSB
8	DB1	Data input/output
9	DB2	Data input/output
10	DB3	Data input/output
11	DB4	Data input/output
12	DB5	Data input/output
13	DB6	Data input/output
14	DB7	Data input/output MSB
15(A)	A	Anode of LED B/L
16(K)	K	Cathode of LED B/L

Typical ordering code MDLS 16263 LV LED01

This is standard Temperature Range, LV single 5v supply, STN Green Mode Display, Yellow Green LED Array style Backlight.

Full part number and full specification will be confirmed dependant on the option selected i.e.

Display type, LED Type and Colour, Temperature Range etc

END

AVNET EMBEDDED OFFICES.

DENMARK

Avnet Embedded
Avnet Nortec A/S
Ellekær 9
2730 Herlev
Phone: +45 3678 6250
Fax: +45 3678 6255
denmark@avnet-embedded.eu

FINLAND

Avnet Embedded
Avnet Nortec Oy
Tiilenpolttajankuja 3 A B
1720 Vantaa
Phone: +358 207 499260
Fax: +358 942 597446
finland@avnet-embedded.eu

FRANCE

Avnet Embedded
Avnet EMG France SA
Immeuble 154, Parc Chene 2
5, allée du General Benoist
69000 Bron
Phone: +33 4 72 81 02 30
Fax: +33 4 72 81 02 34
bron@avnet-embedded.eu

Avnet Embedded
Avnet EMG France SA
6-8, rue Ambroise Croizat
ZAE Les Glaises
91127 Palaiseau Cedex
Phone: +33 1 64 47 29 29
Fax: +33 1 64 47 99 99
palaiseau@avnet-embedded.eu

Avnet Embedded
Avnet EMG France SA
ZA la Hallerais le Semiramis
2, allée du Communal
35770 Vern sur Seiche
Phone: +33 2 99 77 37 00
Fax: +33 2 99 77 33 38
rennes@avnet-embedded.eu

GERMANY (AUSTRIA, CZECH REPUBLIC, HUNGARY, POLAND, SWITZERLAND)

Avnet Embedded
Avnet EMG GmbH
Gruber Straße 60c
85586 Poing
Phone: +49 8121 775 500
Fax: +49 8121 775 550
poing@avnet-embedded.eu

Avnet Embedded
Avnet EMG GmbH
Lötscher Weg 66
41334 Nettetal
Phone: +49 8121 775 500
Fax: +49 8121 775 550
nettetal@avnet-embedded.eu

ITALY (PORTUGAL, SPAIN)

Avnet Embedded
Avnet EMG Italy SRL
Via Manzoni, 44
20095 Cusano Milanino
Phone: +39 02 66092 1
Fax: +39 02 66092 498
milano@avnet-embedded.eu

NETHERLANDS (BELGIUM, LUXEMBOURG)

Avnet Embedded
Avnet B.V.
Takkebijsters 2
4802 BL Breda
Phone: +31 76 5722400
Fax: +31 76 5722404
benelux@avnet-embedded.eu

SWEDEN (NORWAY)

Avnet Embedded
Avnet Nortec AB
Esplanaden 3 D
172 67 Sundbyberg
Phone: +46 8 564 725 50
Fax: +46 8 760 01 10
sweden@avnet-embedded.eu

UNITED KINGDOM (IRELAND)

Avnet Embedded
Avnet EMG Ltd.
Pilgrims Court, 15/17 West Street
Reigate, Surrey, RH2 9BL
Phone: +44 1737 227800
Fax: +44 1737 243872
uk@avnet-embedded.eu

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