



## MI SVGA Cholesteric LCD Module

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### GENERAL

The full SVGA cholesteric LCD module from LC-Tec offers you a range of benefits as compared with other displays:

#### **No Power!**

- your message could be displayed for days, weeks or months without consuming energy and without flicker

#### **Excellent Contrast!**

- the display is reflective and has superb contrast even in direct sunlight.

#### **Impressive Viewing Cone!**

-the display has a very wide viewing cone compared to other LCD's.

### PRODUCT DESCRIPTION

LC-Tec's cholesteric liquid crystal display (Ch-LCD) technology possesses the advantages of a reflective type display whilst dramatically lowering the energy requirements.

Power is consumed only during image updating and the inherent bistability of the liquid crystal material results in no power being required in order to maintain an image.

Readability in direct sunlight is excellent and the Ch-LCD demonstrates a near 85 degree viewing cone from the surface normal in all directions.

The module has a onboard controller and can be used as a stand alone unit. The controller also has a built in memory which can contain up to 8 pictures.

Communication is made thru a user-friendly serial interface.



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## Display Module Characteristics

Display Format:	800 Rows by 600 Columns
Pixel Resolution/Size/Pitch:	55 dpi / 0.4x0.4 mm / 0.46 mm
Active Viewing Area:	368x276 mm
Overall Dimensions:	397x310x15 mm, Details at <a href="http://www.lc-tec.se">www.lc-tec.se</a>
Viewing Cone:	360 degrees, out to 85 degrees from Normal
Module Weight:	1300 gram
Full Image Update Rate:	10 msec/row at 25 °C, 30msec/row at 5 °C
Image Update Energy Cons.:	2.0 J
Image Retention Energy Cons.:	0.0 mj
Operating Temp. Range:	-3 to +60 °C
Storage Temp. Range:	-40 to +100 °C
Rec. UV-protection:	98% UV-block below 380 nm
Standard Colour:	White/Blue

## Display Module Features

Image Storage Capacity:	8 Bitmap-Images
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## Communication

Interface Logic:	RS-232 or RS-485
Serial Communication:	Standard Asynchronous (selectable 2400-57600) preset to 9600, 8, 1, N, half duplex
Possible nr of Signs in Network:	RS-232=1, RS-485=256
Standard Protocol Format:	Refer to LC-Tec Display Module Communication Protocol
Recommended Mating Communication Plug:	MicroMatch 8-215083-0

## Electrical Characteristics

Power Source:	3-6 V		
Recommended Mating Power Plug:	MicroMatch 7-215083-4		
	MIN.	TYP.	MAX.
Power Source Voltage (V):	3.0	5.0	6.0
"Wake-up Mode Current (mA)			
between image writing (at 5V)		15	
during image writing (at 5V)		55	
"Sleep Mode Current" (µA) (at 5V)		160	

## Ordering information

For ordering or further info please contact LC-tec Displays at [info@lc-tec.se](mailto:info@lc-tec.se) or call +46 243 79 40 70.

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