



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V _{SS}	0V	GND
2	V _{DD}	+5V	Power supply for logic
3	V _O	-	No connection
4	RS	H/L	“H” Data, “L” Instruction code
5	R/W	H/L	“H” Read, “L” Write
6	E	H/L	Enable signal
7 14	DB0 DB7	H/L	Data bus line
15	PSB	H/L	“H” Parallel mode “L” Serial mode
16	NC	-	No Connection
17	/REST	L	Reset signal ,active “L”
18	V _{OUT}	-	No connection
19	LEDK	0V	Power supply for LED backlight
20	LEDA	+5V	

NOTES:

1. Built-in ST7920 controller
2. Yellow green/blue mode optional
3. 5V/3.3V power supply optional
4. Parallel mode/serial mode optional

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	93.0X70.0X13.0	mm
Viewing Area (W x H)	72.0X40.0	mm
Dot Pitch (W x H)	0.52X0.52	mm
Dot Size (W x H)	0.48X0.48	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	V _{DD} -V _{SS}	-0.3	5.5	V
Supply Voltage (LCD)	V _O -V _{SS}	-0.3	7	V
Input Voltage	V _I	-0.3	V _{DD} +0.3	V
Operating Temp.	T _{OPR}	-20	70	
Storage Temp.	T _{STG}	-30	80	

ELECTRICAL CHARACTERISTICS (V_{DD}=5.0V, T_a=25)

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	0.7V _{DD}	-	V _{DD}	V
Input Low Voltage	V _{IL}	-0.3	-	0.6	V
Output High Voltage	V _{OH}	0.8V _{DD}	-	V _{DD}	V
Output Low Voltage	V _{OL}	0	-	0.4	V
Supply Current	I _{DD}	-	3	5	mA
LCD Driving Voltage	V _O -V _{SS}	-	5	-	V

LED BACKLIGHT SPECIFICATIONS (T_a=25)

Item	Forward Voltage	Forward Current
YELLOW-GREEN	4.1V	360mA
White	3.1V	60mA