



PIN CONNECTIONS

Pin	Symbol	Level	Function
1	V _{SS}	0V	Ground
2	V _{DD}	+5V	Power supply for Logic
3	V _O	H/L	Driving voltage for LCD
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
18	NC	-	No Connection
19	LEDA	+5V	Power supply for LED backlight
20	LEDK	0V	

NOTES:

1. Built-in ST7920 controller
2. Yellow-green/Blue mode optional
3. Temperature compensation optional

MECHANICAL DATA

Item	Nominal Dimensions	Unit
Module Size (W x H x T)	78.0X70.0X12.0	mm
Viewing Area (W x H)	62.0X44.0	mm
Dot Pitch (W x H)	0.44X0.60	mm
Dot Size (W x H)	0.40X0.56	mm

ABSOLUTE MAXIMUM RATINGS

Item	Symbol	Min.	Max.	Unit
Supply Voltage (Logic)	V _{DD} -V _{SS}	-0.3	7.0	V
Supply Voltage (LCD)	V _{DD} -V _O	-0.3	6.5	V
Input Voltage	V _I	-0.3	V _{DD} +0.3	V
Operating Temp.	T _{OPR}	-20	+70	°C
Storage Temp.	T _{STG}	-30	+80	°C

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

Item	Symbol	Min.	Typ.	Max.	Unit
Input High Voltage	V _{IH}	0.8 V _{DD}		V _{DD}	V
Input Low Voltage	V _{IL}	0	-	0.2V _{DD}	V
Supply Current	I _{DD}	-	-	-	mA
LCD Driving Voltage	V _{DD} -V _O	-	6	-	V

LED BACKLIGHT SPECIFICATIONS (T_a=25°C)

Item	Forward Voltage	Forward Current
YELLOW-GREEN	4.1V	440 mA
White	3.1V	60mA