



RAYSTAR

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RC1602LR

General Specification

The features is described as follow:

- Module Dimension: 122.0 x 44.0 x 13.6(MAX) mm
- View Area: 99.0 x 24.0 mm
- Active Area: 94.2 x 20.0 mm
- Number of Characters: 16 Characters x 2 Lines
- Dot Size: 0.92 x 1.1 mm
- Dot Pitch: 0.97 x 1.16 mm
- Character Size: 4.8 x 8.06 mm
- Character Pitch: 5.96 x 9.66 mm
- Duty: 1/16
- Backlight Type: LED
- IC:ST7066
- Interface: UART

Interface Pin Function

CON1

Pin No.	Symbol	Description
1	RX	UART: serial data input (full duplex communication)
2	VSS	Ground
3	VDD	Supply Voltage
4	TX	UART: serial data output
5	CS	SPI: chip select
6	SDO	SPI: serial data output
7	SCK/SCL	SPI: serial clock I2C: serial clock
8	SDI/SDA	SPI: serial data input I2C: serial data input/output
9	VSS	Ground
10	VDD	Supply Voltage

Absolute Maximum Ratings

Item	Symbol	Min	Typ	Max	Unit
Operating Temperature	T _{OP}	-20	—	+70	°C
Storage Temperature	T _{ST}	-30	—	+80	°C
Supply Voltage	—	V _{SS} -0.3	—	6.0	V
EEPROM Cell Endurance	—	100K	—	—	E/W
Input Voltage	—	V _{SS} -0.3	—	V _{DD} +0.3	V

Electrical Characteristics

Item	Symbol	Condition	Min	Typ	Max	Unit
Supply Voltage For Logic	V _{DD} -V _{SS}	—	4.5	5.0	5.5	V
Supply Voltage For LCD	V _{DD} -V _O	T _a =25°C	4.1	4.2	4.3	V
Input High Voltage	V _{IH}	—	3.5	—	5.0	V
Input Low Voltage	V _{IL}	—	0	—	1.5	V
Supply Current (Module + Backlight)	I _{DD}	V _{DD} =5.0V	—	—	65	mA