Display Module
Versatile display module featuring bright, white LEDs, with UART interface
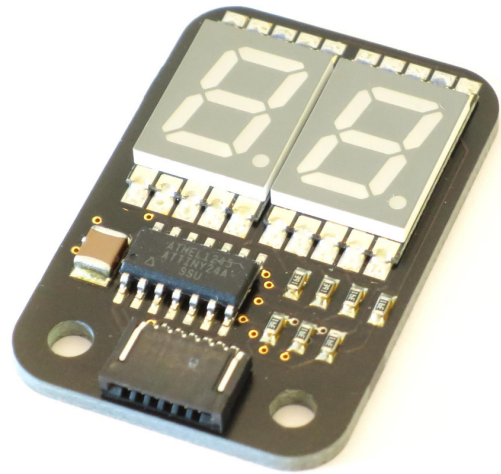
Features
- 10 mm size, bright white LED characters
- 5 VDC, 40 mA supply
- Easy one wire interface
- Special display effects
- Brightness control
- Compact size; 36 by 24 mm

Possible Customization
- LED colors
- Display content and interfacing protocols

Applications
- High-end audio or studio
- Industrial controls

RoHS (2002/95/EC)

Description
The Display Module is a versatile, 2-digit display solution that incorporates two, 7-segment, high brightness LED characters per unit. The module is controlled by a UART interface which runs with 38.4k baud and allows addressing display values from 0 to 99, characters from A to FF, and special display effects such as blinking, spool effects and brightness control. The power requirement is 5 VDC and 40 mA.

This module offers a versatile and cost effective white LED display solution with easy interfacing.

Dimensions (mm)
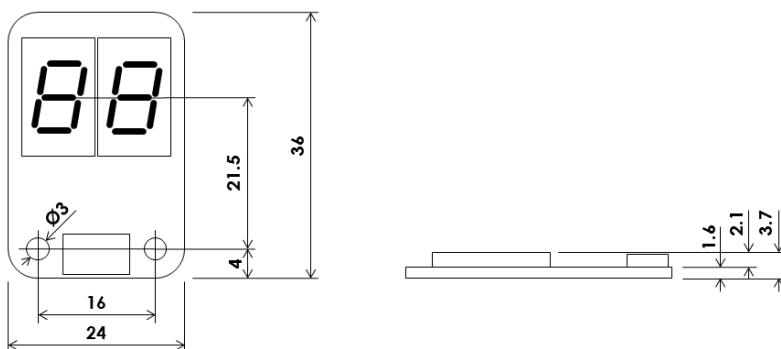
Specifications

General

Operating voltage:	4.5 to 5.5 VDC
Current consumption:	40 mA max. (at 5 VDC and 20 °C)
UART interface:	38.4k baud, 1 byte non-inverted, even parity, 1 stop bit. 50k internal pull-up.
Start-up condition:	Immediately displaying "0" with max. brightness
LED display type:	Lite-On, P/N LTS-4817SW-P
Connector:	FCI, P/N HFW6R-2STE1LF (6 positions, 1 mm pitch, top contacts)
Recommended cable:	Molex, P/N 0210390211 (Digikey P/N WM10052-ND)
Temperature ranges:	0 to +50°C max. operating, -25 to +85°C max. storage
Packaging:	Single piece packed (ESD shielded bag)

Character Set

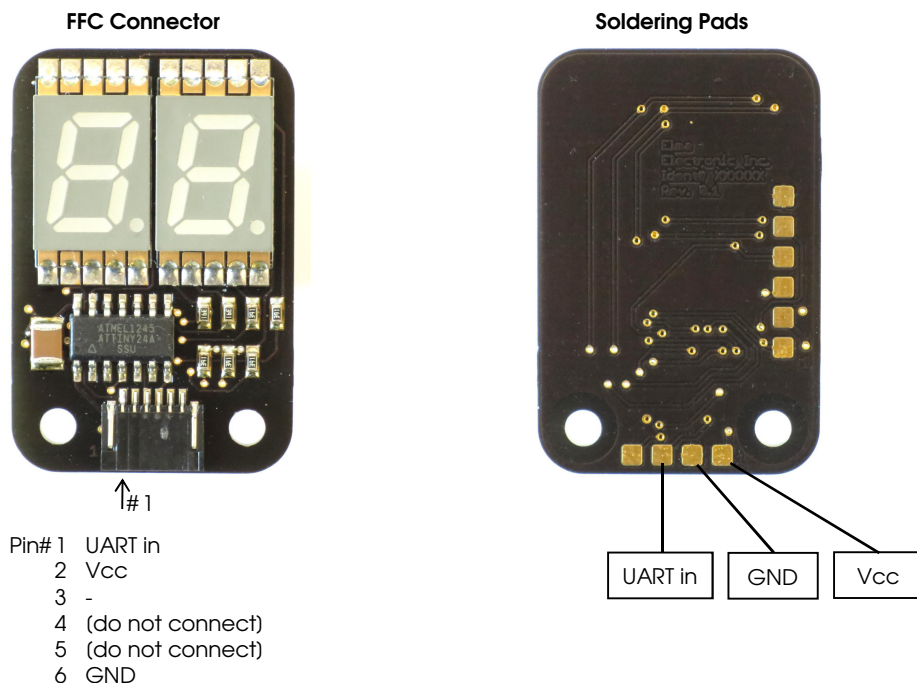| UART command;	Character;
Numbers and Letters	
0-99	0 to 99
1x1 to 1x6	xA to xF
11x to 16x	Ax to Fx
Special Functions	
180	Spool effect forward slow (the four bottom segments of each digit rotate in a circle)
181	Spool effect forward fast
182	Spool effect reverse slow
183	Spool effect reverse fast
184	Display blinking (return to steady state; any value ranging from 201 to 209)
200	Display off
201 to 209	Brightness (209 = max. brightness)

Pin Allocation

There are two possible ways to connect the Display Module; either by top side FFC connector or by bottom side soldering pads;

FFC Connector

↑ #1

Pin# 1	UART in
2	Vcc
3	-
4	(do not connect)
5	(do not connect)
6	GND

Soldering Pads

| UART in | GND | Vcc |

Ordering Code

Part-No.; DISPMOD