

## I2C VERSATILE DISPLAY CONTROLLER

### Features

- Alphanumeric LCD modules (44780 type) to I2C
- M5451 LED numeric modules
- M5453 LCD numeric modules
- 4 Annunciator LEDs
- Control lines for backlight, module reset, and contrast/brightness
- 2x Alpha LCD + 3x Numeric displays simultaneously
- Decodes text to 7 seg for numeric displays
- Direct display of binary numbers (binary->text built-in) to simplify code
- Multiple, addressable displays
- reduce front panel wiring
- Low EMI, Non-mux LEDs
- Low power
- Low cost

### Applications

- Instruments
- Rapid Prototyping & PnP design
- On-machine displays for PC based instrumentation and control
- ATE
- MP3 Controllers

### Programmable

EEProm stores commands and settings

- Base I2C Address
- Settings
- macros
- strings

### Description

A versatile interface between I2C and common display modules.

Use both detailed Alpha lcd modules *and* high readability/visibility numeric (LED/LCD/FL) displays in equipment. Provides easy operation of any common alphanumeric LCD, and numeric display modules.

One BL301 can control an LCD module *and* 3 four digit LED/LCD numeric modules *and* 4 annunciator LED's.

BL301+LCD module is cheaper than other specialist I2C display chips.

Pre-built modules are available for rapid prototyping.

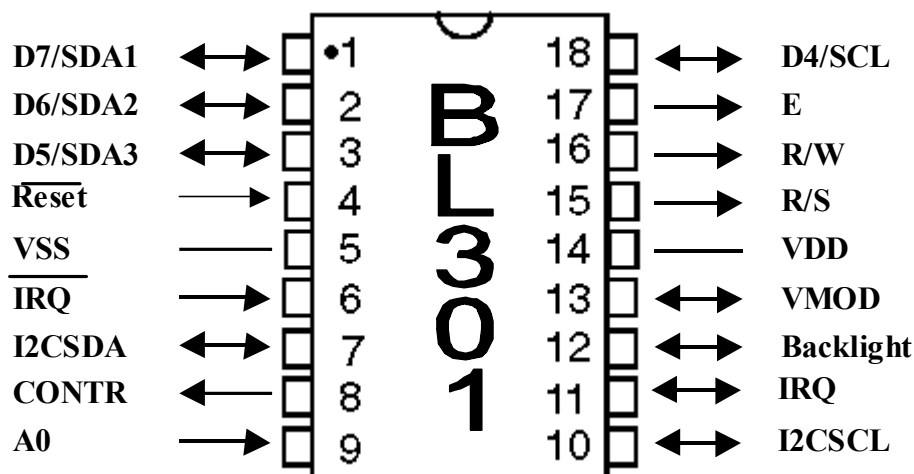


Figure 1 BL301 Pinout (dip 18)