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.

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Figure 1: BL301 Pinout (dip 18)