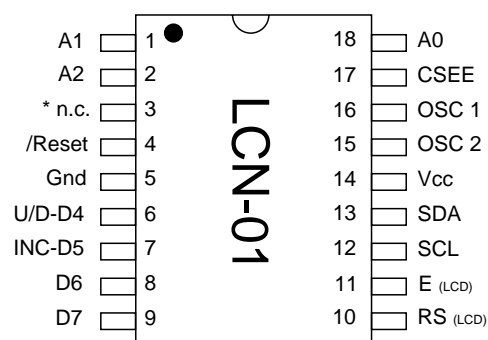


AMM LCN-01

LOCAL CONTROL NETWORK LCD/I²C INTERFACE CONTROLLER**FEATURES:**

- **controls any alphanumeric LCD-module with HD44780 command-set via I2C-bus**
- **only two wires needed for display control**
- **multiple displays can be operated on the same I2C-bus**
- **can control display contrast per software via external E2pot (± 5 Volt range)**

PDIP, SOIC



* n.c. means don't connect

DESCRIPTION:

The AMM LCN-01 is a low-voltage, high-performance interface-controller, that enables the user to control any alphanumeric LCD-module, that is equipped with a HD44780 controller (or compatible), via an two-wire I2C-bus.

The AMM LCN-01 is the first member of AMMs Local Control Network product-series, which will be expanded by graphic LCD- and keypad-interface-controllers.

The AMM LCN-01 can be clocked by an external quartz crystal with up to 8MHz clock-frequency. The alphanumeric LC Display Module is operated in the 4-bit-mode, in order to reduce pin-count (and thus required board size) of the controller.

Every HD44780 compatible display-command is performed automatically after issuing the appropriate I2C-write-command to the controller. A read-operation is not included in the LCN-01.

The LCD-contrast attenuation can be controlled by 4 independent commands:

- set contrast attenuation value (0..99)
- increment contrast attenuation (0..99)
- decrement contrast attenuation (0..99)
- store setting to EEPROM

(When using contrast attenuation commands, the user must connect a XICOR X9C103 to the LCN-01.)