PC-38W 16 CHANNEL TTL I/O DRIVER MODULE

Features

16 Digital Output Darlington driven Channels with “Lamp Test” jumper (Connected to Digital I/O O/P’s of the Host DAQ PC Card).

For use with PCI-62C/63C/73C Digital I/O (DB-37F) or (IDC-40M), using 1:1 cables.

Two IDC-20M connectors for accessing the 16 Digital I/P’s and 16 Digital O/P’s for use with other DAQ PC Cards or with the PC-43A1/2/3

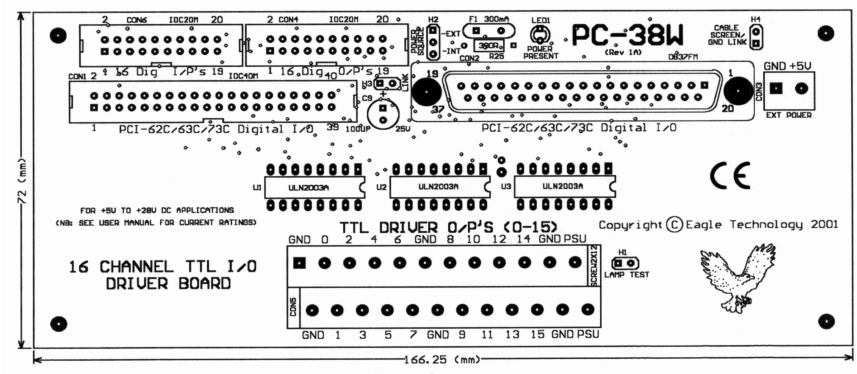
DB-37F Connector Cable Screen / DGND” linking jumper.

High quality screw terminals for easy field wiring.

Internal / External (+5V) power input is jumper selectable (300mA resettable fuse for PSU protection and LED for indication “Power Present”).

There are four 3.2mm diameter holes for mounting or a DIN-RAIL Mounting Base may be fitted (recommended for quick hassle free installations).

PC-38W



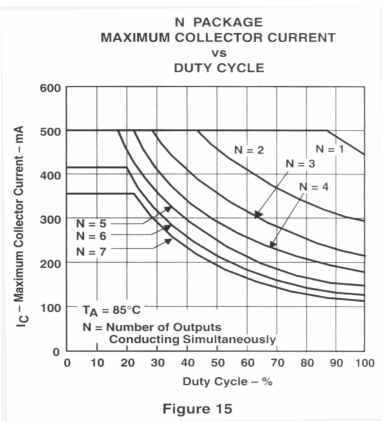


Figure 15

Darlington Driver Output Specifications

Number of Darlington Driver Output channels: 16

Darlington Driver: ULN2003AN

Switching Voltage Range: 0-28VDC

Switching Speeds: 0.25uS(Typ.) 1uS(Max.)

Peak Switching Current: (See chart below)

Channels (12-15) have “double” Darlington’s, (0-10) have one

Access via: TTL Driver O/P’s (0-15) screw terminals

Temperature Ranges

Operating Temperature: 0° to 60°C

Storage Temperature: -20° to 80°C

Physical Dimensions

72.0mm (width) X 166.25mm (length) X 23.0mm (height without DIN-RAIL Mounting Base fitted)

77.0mm (width) X 168.75mm (length) X 45.0mm (height with DIN-RAIL Mounting Base fitted)

Very Important Notes!

When using this module with either the PCI-62C (Rev 1A*) or PCI-63C (Rev 1B*) please note the following:

When using the IDC40 connector, LINK (H3) can be ignored. Whether it is shorted or not, pin’s 37&40 both supply +5V internally, but using the POWER SOURCE header (H2) set to -EXT, +5V can also be supplied externally. When using the DB37 connector, LINK (H3) should shorted. Pin 37 supplies +5V internally, but using the POWER SOURCE header (H2) set to -EXT, +5V can also be supplied externally.

When using this module with either the PCI-62C (Rev 1A) or PCI-63C (Rev 1A or 1B) please note the following:

When using the IDC40 connector, LINK (H3) must be left open (DO NOT short, other wise +5V and GND will be short circuited!). Pin 40 supplies +5V internally (pin37 is connected to GND), but using the POWER SOURCE header (H2) set to -EXT, +5V can also be supplied externally. When using the DB37 connector, LINK (H3) can be ignored. No power is supplied by this connector, but by using the POWER SOURCE header (H2) set to -EXT, +5V can be supplied externally.

The Eagle Technology Data Acquisition Catalogue “Connector Pinouts” on page’s:18&19), refer ONLY to the * revision of the above mentioned DAQ boards.

The PC-38W module does not require +5V for it’s operation. However, the Digital Input module PC-43B does require +5V power, so if it is connected to this module (via an IDC20 ribbon cable), it will be required.