



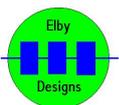
MIDI Interceptor

Construction Guide

Revision 0.2

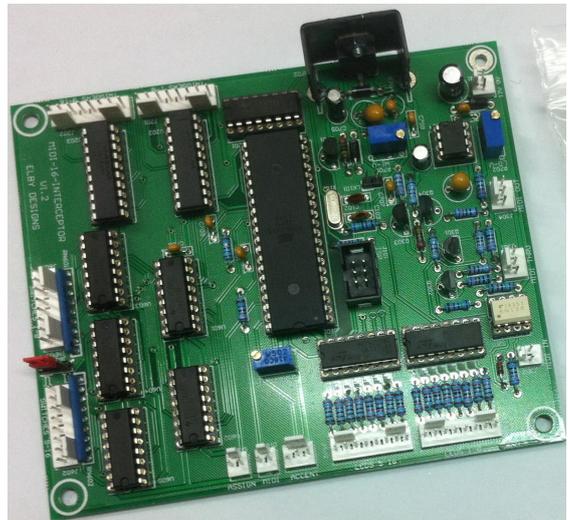
PCB Revision V1.3

July 16, 2020



MIDI Interceptor

Constructors should refer to the [Component Overlay](#) for any specific comments regarding the board assemblies, the [Bill of Materials](#) for the current value of all components and [General Construction Notes](#) for general PCB assembly guidelines.



1. Assemble the MIDI Interceptor board ([3D Model](#))

Installation

[Power \(Wiring Guide\)](#)

Power is connected to J701. MIDI Interceptor requires a supply of, typically, between 12V and 15V. The supply should be able to deliver up to around 250mA.

The 0V and 5V needed for the panel wiring are available from P102_3 and D101_1 connectors as shown

[MIDI \(Wiring Guide\)](#)

MIDI connections are made to J301, J302 and J304.

[LED Indicators \(Wiring Guide\)](#)

LEDs for status indication of the trigger channels are made to J801 and J802. If using a multi-digit LED display device then they must be configured for a common-anode connection which is connected to the units +5V supply.

A [MIDI LED](#) can be connected to D101 and indicates the receipt of valid MIDI messages.

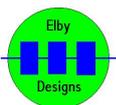
It is desirable to use low-current LED's to minimise loading on the supply. The MIDI Interceptor has onboard current-limiting resistors which set a current loading of ~2mA per LED.

[ACCENT LEVEL \(Wiring Guide\)](#)

The ACCENT pot is connected to P102 and should be in the range of 20K to 100K with a linear action. If a panel control is not required then a small trimpot should be wired to the connector and located in a secure place.

[ASSIGN Switch \(Wiring Guide\)](#)

An ASSIGN switch can be connected to S101. This should be a normally-open switch with momentary-action such as a pushbutton switch.



ELBY Designs - Laurie Biddulph

9 Follan Close, Kariong, NSW 2250, Australia

elby-designs@bigpond.com <http://www.elby-designs.com>

MIDI Interceptor

System Triggers (Wiring Guide)

Incoming trigger signals for your systems 'controller' are connected to J601 and J602. These signals should be 5V logic and must be referenced to the units 0V power rail.

JP601 should be set to reflect the logic mode of these inputs.

TRIGGER Outputs (Wiring Guide)

Trigger outputs are available at J201 and J202. These are positive-voltage outputs referenced to the units 0V power rail.

Mounting

Four (4) mounting points are provided for installing the MIDI Interceptor unit. These are designed for M3 or equivalent sized fixings. The board should be mounted using spacers with a minimum height of 2mm.

Make sure to leave clearance for the heatsink on U702.

