

# INSTRUCTIONS FOR INSTALLING AND OPERATING THE CHILLI NETLINK

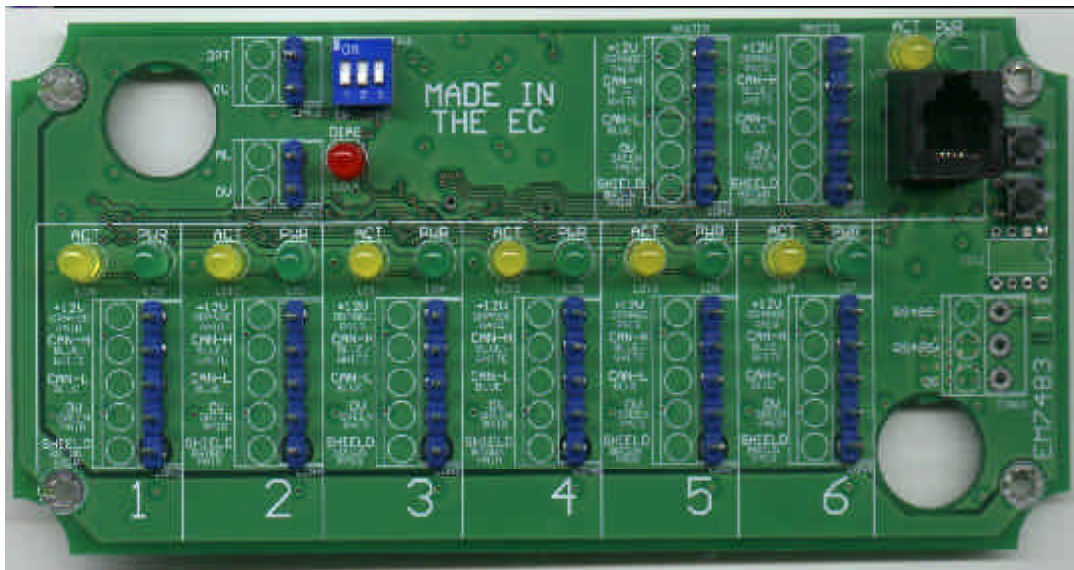


Figure 1: Chilli NetLink PCB

## Introduction

The Chilli NetLink is a marshalling box, enabling up to 6 independent Chilli Networks to be linked together and controlled from a master network.

Applications include whole building alarm control and whole building entry/exit control in multi theatre or room venues.

LED indication of network power, network activity and alarm activation is provided to enable easy setup and fault-finding.

Power for the unit is derived from any of the connected networks, alleviating the need for additional power supplies.

Note that the Chilli NetLink does not distribute power between networks.

The installer must ensure that each connected network has power from one of the following sources:

- Dimmers on that network
- A power supply on that network
- Power only looped across from another network.

## Installation

To install the unit, remove the cover and fix the unit to a stable surface through the holes in the PCB.

Bring the connecting cables into the unit through the knockouts provided in the side of the unit.

## Network Terminals

The network terminals are labelled with the recommended colours of the pairs in CAT5 cable as follows:

Orange Pair	+12V
Blue/White	CAN-H
Blue	CAN-L
Green Pair	0V
Brown Pair	Shield

All devices in a Chilli network must be connected in serial. The devices in the network can be wired in any order.

## Termination Resistors

At the two ends of a Chilli Network, a termination resistor must be fitted in the terminal block (see figure 2).

This resistor is 120 Ohms, 0.25 Watt and is connected between the CAN-H and CAN-L terminals.



Figure 2: Termination Resistor

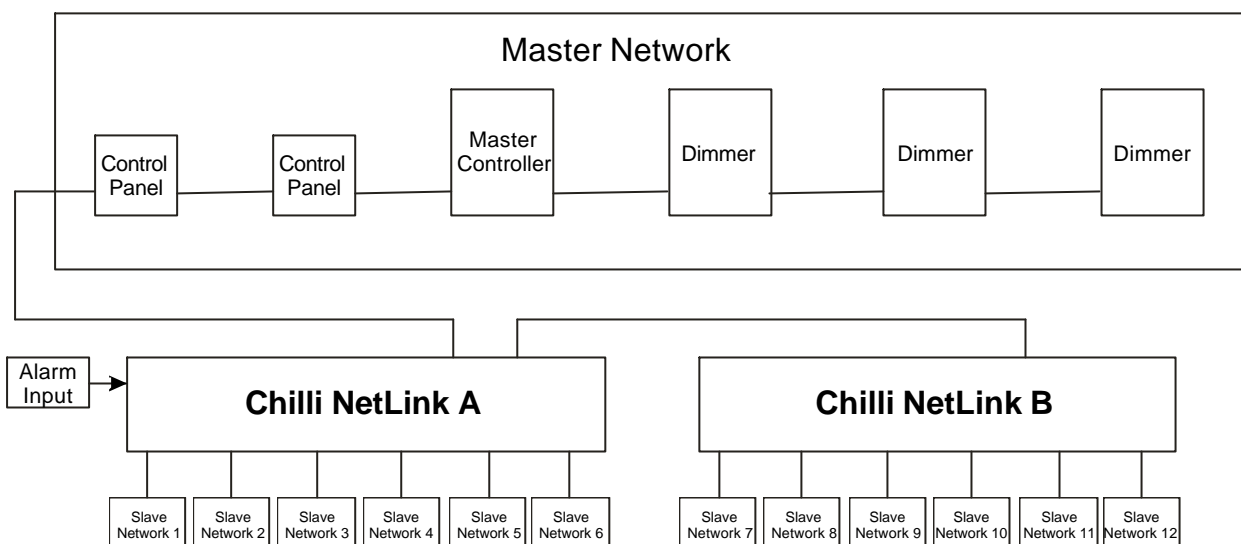


Figure 3: Example Chilli Network System

## Master Network

The following user actions on the Master Network will be transmitted through to the slave networks:

- Control Panel button presses (memories, sequences, off).
- Network locking/unlocking from a Master Controller.
- Alarm messages generated by Chilli Pro dimmers.

## Alarm Input

Input Type - Volt free switched to GND (Internal pull up resistor).

Connection - 2-way screw terminal with cable protectors.

Pin 1 Input Pin 2 0V

When the alarm input goes active, the dimmer outputs on all the connected networks will go to 80%.

When the alarm activation is removed, the dimmer outputs on all connected networks will return to their normal values, and the dimmers will resume normal operation.

## Option Input

Refer to Zero 88 Sales team.

## Mechanical Specification

Dimensions: 180 x 94 x 57mm

Weight: 0.25kg

Material: Polystyrene

Colour: Grey

## Environmental Specification

Temperature Range: 0 to 50°C

Humidity: 0 - 90% non condensing

Emissions: EN50 081-1

Susceptibility: EN50 082-1

LVD: BS EN 61010:1993

## Electrical Specification

### Supply Voltage

12V DC supplied from the network.

### Network Connections

Master Network: 2 x 5-way 2-part screw terminal blocks.

Slave Networks: 1 x 5-way 2-part screw terminal block per slave.

## Zero 88 Lighting Ltd.

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Zero 88 Lighting Ltd.  
Usk House  
Llantarnam Park  
Cwmbran  
Gwent NP44 3HD  
United Kingdom

Tel: +44 (0)1633 838088 \*  
Fax: +44 (0)1633 867880  
e-mail: sales@zero88.com  
Web: www.zero88.com

\* 24 hour answerphone

