

Insta-Lynx User Guide

(Version 1.2)

Insta-Lynx is a Mid-Span Power Inserter for 10BaseT Ethernet

Key Features include:

- ❑ 12 Ethercon connectors for hub patch
- ❑ 12 Ethernet cable termination points
- ❑ Insert power on to Cat5 cable
- ❑ Electronic cable protection
- ❑ Individual channel power state indication
- ❑ Reverse polarity protection
- ❑ Latching Ethercon RJ45
- ❑ Rack-Mountable

Specification:

| | |
|-----------------------|------------------------------------|
| Input Voltage: | 24VDC |
| Output current Limit: | 400mA per outlet |
| IP: | Indoor use only |
| Height | 1RU |
| Width: | 19 inch |
| Depth: | 110mm |
| Ethernet Connector: | Neutrik Ethercons or standard RJ45 |
| Termination Points: | Krone style punch down connector |
| Power Connector: | Weidmuller 2pin plug |

Power Supply Options: (order separately)

| PSU Option | Number of Units |
|--------------|---|
| PSU-24-2-WM2 | 1 required for 6 ports, 2 required for 12 ports |

Insta-Lynx has been designed to power Artistic Licence nodes, such as Down-Lynx, over Ethernet cables. It is not IEEE802 PoE Compliant.

Overview:



Insta-Lynx is used to both terminate building Ethernet cables and also add low voltage power. This allows devices such as Down-Lynx and Up-Lynx to be powered over the Cat5 cable.

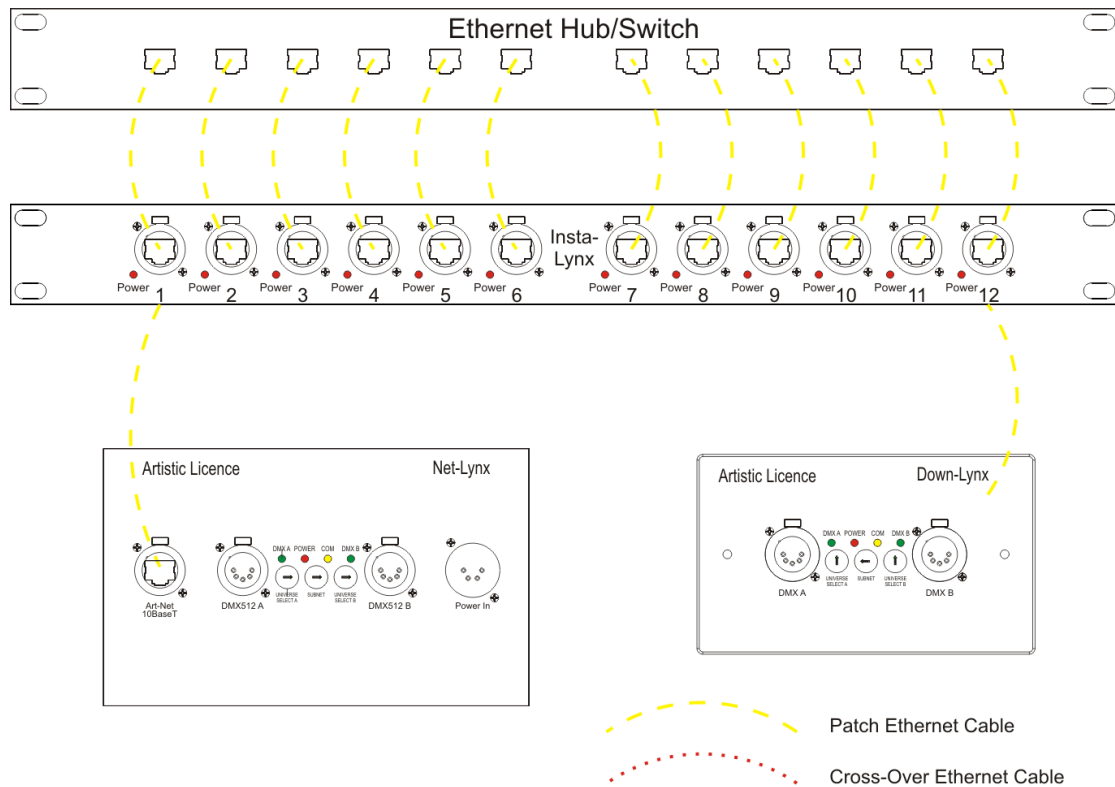
The building cables are terminated to rear mounted Krone style punch down connectors. Power is supplied via an electronic fuse rated at 400mA.

The front panel provides latching Neutric Ehtercon RJ45 connectors for connection to an external hub.

A total of twelve ports are provided. These are split into two banks of six. A power supply is required for each bank of six

Insta-Lynx can also be used as a 10BaseT Cat5 termination panel without power.

Insta-Lynx Wiring Diagram:



Ethernet Wiring:

Ethernet Interface:

Connect to 10BaseT Ethernet Hub/Switch using Cat5 or better cable

Wiring Options:

There are two ways of wiring an Ethernet Cable;

- ❑ Patch/Straight
- ❑ Crossover

Each type has their own use and the following table should be used to select the correct option.

| Patch/Straight Cable | Cross-Over Cable |
|-------------------------------|-----------------------------|
| Computer to Hub/Switch | Computer to Node |
| Hub/Switch to Node | Computer to Tour/Insta-Lynx |
| Hub/Switch to Tour/Insta-Lynx | Hub/Switch to Hub/Switch |
| Tour-Lynx/Insta-Lynx to Node | Power-Hub 4 to Hub/Switch |

Note: Power-Hub 4 is considered the same as a Hub/Switch

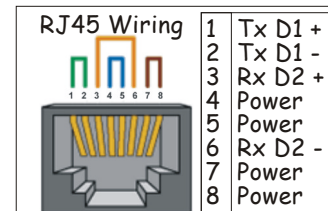
Most modern hubs and switches can automatically detect which type of cable you are using so the selection process is not critical, however to reduce possible problems it is recommended that you should always use the correct cable.

Wiring Detail:

The following guide should be used if custom Cat5 cables are being used

Straight Cable

| | | | | | | |
|---|-----|--------------|---|--------------|-----|---|
| 1 | RX+ | White/Orange | ← | White/Orange | RX+ | 1 |
| 2 | RX- | Orange | ← | Orange | RX- | 2 |
| 3 | TX+ | White/Green | → | White/Green | TX+ | 3 |
| 4 | | Blue | → | Blue | | 4 |
| 5 | | White/Blue | → | White/Blue | | 5 |
| 6 | TX- | Green | → | Green | TX- | 6 |
| 7 | | White/Brown | → | White/Brown | | 7 |
| 8 | | Brown | → | Brown | | 8 |



Cross-Over Cable

| | | | | | | |
|---|-----|--------------|---|--------------|-----|---|
| 1 | RX+ | White/Green | ← | White/Orange | RX+ | 1 |
| 2 | RX- | Green | ← | Orange | RX- | 2 |
| 3 | TX+ | White/Orange | → | White/Green | TX+ | 3 |
| 4 | | Blue | → | Blue | | 4 |
| 5 | | White/Blue | → | White/Blue | | 5 |
| 6 | TX- | Orange | → | Green | TX- | 6 |
| 7 | | White/Brown | → | White/Brown | | 7 |
| 8 | | Brown | → | Brown | | 8 |

The Art-Net Range:

- ❑ Down-Lynx - A wall-mounted panel Ethernet to DMX512 converter. It converts Art-Net Ethernet data into two universes of DMX512 & RDM (Available in UK or US formats)
- ❑ Up-Lynx - A wall-mounted panel DMX512 to Ethernet converter. It converts two universes of DMX512 into Art-Net Ethernet data. (Available in UK or US formats)
- ❑ Net-Lynx O/P - A desktop Ethernet to DMX512 converter. It converts Art-Net Ethernet data into two universes of DMX512 & RDM
- ❑ Net-Lynx I/P - A desktop DMX512 to Ethernet converter. It converts two universes of DMX512 into Art-Net Ethernet data
- ❑ Tour-Lynx - A rack-mounted (2RU) Mid-Span Power Inserter for 10BaseT Ethernet
- ❑ Insta-Lynx - A rack-mounted (1RU) Mid-Span Power Inserter for 10BaseT Ethernet
- ❑ Power-Hub 4 - A four port 'Power over Ethernet' hub
- ❑ Panel-Power 15 - A wall-mounted panel PSU for Down/Up-Lynx
- ❑ Rock Solid Ethernet Book - A guide to the world of Ethernet Technology
- ❑ DMX-Workshop - A free windows application that allows the user complete control over an Art-Net network
- ❑ Net-View - A free Pocket PC version of DMX-Workshop
- ❑ AL5001 - A drop in module that receives Art-Net and outputs two universes of DMX512
- ❑ Net-Switch - A Din-Rail mounted Ethernet switch which provides five 10/100BaseT Ethernet ports, four of which are PoE
- ❑ Data-Lynx - A rack-mounted (1RU) Art-Net Ethernet to DMX512 converter, providing 12 DMX512 universes

Artistic Licence

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