

# **Fast Ethernet FX-TX Media Converter**

## **User Manual**



## Introduction

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The Fast Ethernet FX-TX Media Converter Provides an ideal solution for extending the cable length of your network, or a way of interconnecting LAN segments that utilise FX (fibre optic) and TX (copper) media.

The converter transforms 100baseTX signals on copper cables into 100baseFX light signals, and FX light signals into TX signals, enabling data to be sent seamlessly between the two media.

Because this product doesn't require any user setup or configuration procedure, the installation is simple, and once installed the converter operates automatically.

This guide details the simple steps required to get the converter functioning and includes a troubleshooting section for possible problems that might be encountered, enabling you to get quick, effective and reliable operation from your converter.

## Features

The **Fast Ethernet FX-TX Media Converter** provides the following features.

Easy-to-view LEDs for traffic monitoring

Internal, universal power supply (110-240 volts)

Full duplex 200Mbps Fast Ethernet bandwidth (100Mbps in each direction)

RJ45 CAT 5 UTP on 100baseTX

Available with SC or ST fibre connectors

# Installation

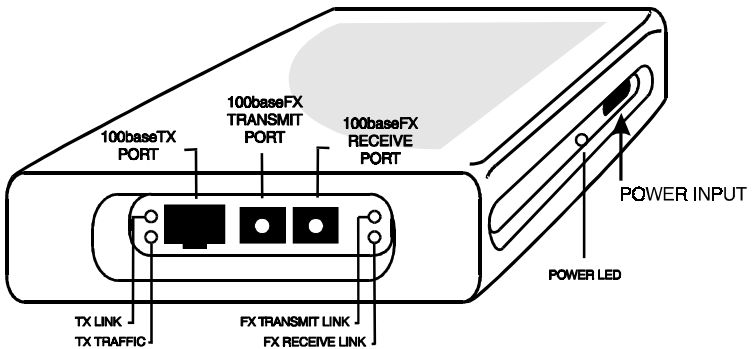
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## Connectors and LEDs

Connect the power cord to the **Power Input** socket as shown in the illustration below and plug into power supply.

The **Power** LED will flash to indicate that the device has powered up.

The illustration shows the setup of the ports and the diagnostic LEDs.



## Connecting the Converter to the Network

### TX Port

Insert the **RJ-45 100baseTX** cable from the Fast Ethernet hub into the **RJ-45 TX** port on the converter.

The yellow **Link** LED will light to show the connection to the TX hub is good.

The green **Traffic** LED will blink when data passes through the port.

### FX Ports

The FX ports will be either SC type or ST type, depending on your requirements.

Insert the **Receive FX** connector into the **Receive FX** port.

Insert the **Transmit FX** connector into the **Transmit FX** port.

The yellow **Link** LED will light to show the Transmit connection is good.

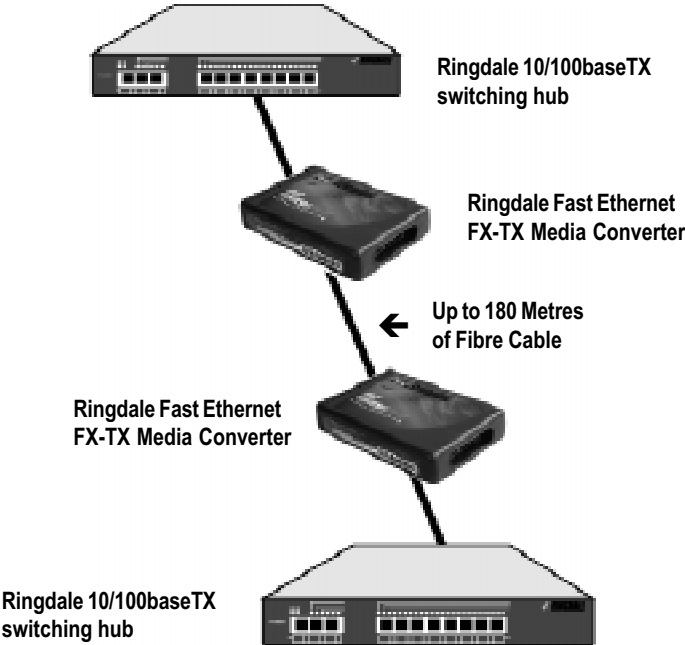
The green **Link** LED will light to show the Receive connection is good

The converter is now fully operational and its performance can be monitored using the LEDs.

# Typical Uses for the Converter \_\_\_\_\_

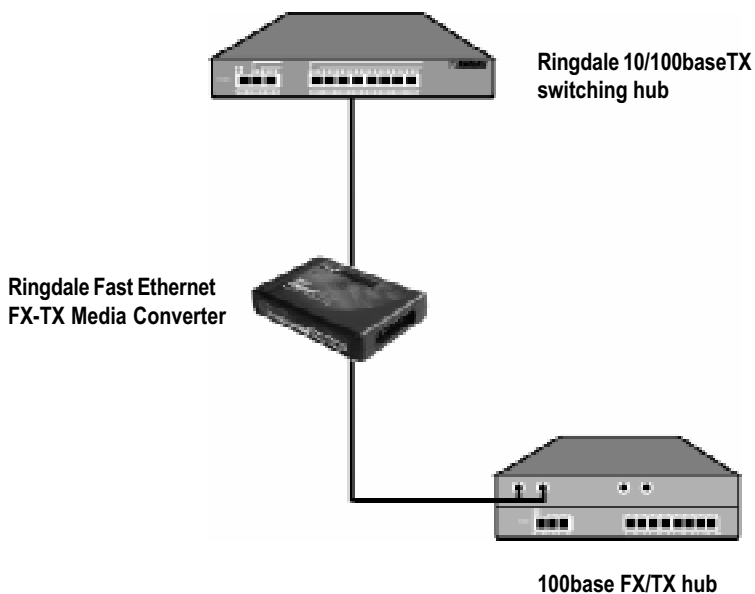
## Extending the Cable Length of your Network

With two converters connected to Fast Ethernet TX hubs, this will give up to 180 metres of fibre cable between them, highly suitable for network connections that are inappropriate for copper cabling (e.g. between different buildings on the same site, where the risk of lightening strikes makes fibre necessary).



## Connecting FX and TX LAN Segments

With the converter connected to a Fast Ethernet TX hub and a hub with FX connectors, the two LAN segments can be joined together.



## Important Information

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*The device is designed to operate in a typical office environment. Choose a site that is:*

*Well ventilated and away from sources of heat including direct sunlight.*

*Away from sources of vibration or physical shock.*

*Isolated from strong electromagnetic fields produced by electrical devices.*

*Provided with a properly grounded wall outlet.*

*Do not attempt to modify or use the supplied AC power cord if it is not the exact type required.*

*Do not use in a damp environment*

## Troubleshooting and Technical Reference ---

| <b>Symptom</b>                                     | <b>Poss. Cause</b>       | <b>Action</b>                      |
|--|--------------------------|------------------------------------|
| Power LED<br>does not light up                     | Power cord not connected | Plug in converter                  |
|  | Fuse defect              | Replace fuse                       |
| Activity/Transmit/<br>Receive LEDs do<br>not Blink | No cable inserted        | Connect to<br>converter and<br>hub |
|  | hubs not<br>powered up   | Check power<br>supply for<br>hubs  |
|  | Wrong cable type         | Verify cable<br>selection          |
|  | Bad cable                | Replace cable                      |
|  | Cable too long           | Recalculate cable<br>length        |

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### ***Technical Specification***

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|                    |  |
|--------------------|--|
| Mains:             | 90..240 volts AC   |
| Power Consumption: | 3 Watts typical  |
| Frequency:         | 50..60Hz   |
| Connection:        | Fast Ethernet 100baseTX RJ-45 type<br>Fast Ethernet 100baseFX SC<br>or<br>Fast Ethernet 100baseFX ST |
| Speed:             | 200mbs   |
| Part No:           | 00-22-0301-0000  |

**Note:** *specifications are subject to change without notice.*

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