



Ethernet to Token Ring Adaptor:
LBU9001

Ethernet to Token Ring Adaptor



TECHNICAL: (0118) 965 6000
SALES: (0118) 965 5100
FAX: (0118) 965 5001
ADDRESS: 464 Basingstoke Road, Reading, Berkshire RG2 0QN
WEB: www.blackbox.co.uk

How To Contact your Local Black Box

Italy:

Black Box Italia S.P.A

Tel: 0227400280

Fax: 0227400219

Web Site: www.blackbox.it

Australia:

Black Box Catalog Australia PTY LTD

Tel: 0398797100

Fax: 0398702955

Deutschland:

Black Box Deutschland

Tel: 0811/5541-0

Fax: 0811/5541-499

Web Site: www.blackbox-deutschland.com

Brazil:

Black Box Do Brasil.

Tel: (011) 5515-4000

Fax: (011) 5515-4002

Web Site: www.blackbox.com.br

Switzerland:

Datacom Black Box Services AG

Tel: 0554517070

Fax: 0554517075

Web Site: www.black-box.ch

Canada:

Black Box Canada Corp.

Tel: 0416-736-8000

Fax: 0416-736-7348

Web Site: www.blackbox.com

Netherlands:

Black Box Datacom BV

Tel: 03032417799

Fax: 0302414746

Web Site: www.blackbox.nl/

Mexico:

Black Box De Mexico S.A. de C.V

Tel: 05-420-0100

Fax: 05-420-0123

Web Site: www.blackbox.com.mx

Belgium:

Black Box

Tel: 027258550

Fax: 027259212

Web Site: www.blackbox.be

Japan:

Black Box Catalog

Tel: 03-3820-5011

Fax: 03-3820-5010

Web Site: www.blackbox.co.jp/



France:

Black Box Catalogue

Tel: 0145606700

Fax: 0145606747

Web Site: www.blackbox.fr

Spain:

Black Box Comunicaciones S.A.

Tel: 34 91 663 0200

Fax: 34 91 661 84 35

Web Site: www.blackbox.es

U.S.A

Black Box Corporation

Tel: 724-746-5500

Fax: 724-746-0746

Web Site: www.blackbox.com

Chile

Black Box Chile

Tel: 00 562 223 8811

Fax: 00 562 225 1002

Web Site: www.Blackbox.cl



Contents

Overview	5
General Features and Functions.....	6
Installation.....	7
Powering the Adaptor	7
External View.....	7
Connecting the Adaptor	8
Ethernet Panel.....	8
Technical Specification	10
Troubleshooting	11
Versions and Download	12



Overview

The Ethernet to Token Ring Adaptor enables a device with an Ethernet output (such as a network ready printer) to be connected to a Token Ring Network.

This product does not require any user set up or configuration procedure. The installation is simple, and when installed the adaptor operates as a bridge. Once the Adaptor is powered, the Adaptor will automatically detect and store the Ethernet device's MAC address in its table and then carrying out standard bridging procedures such as filtering and forwarding.

This product is maintenance free and comes in a sealed plastic case that should not be opened.



General Features and Functions

The construction is on a single PCB mounted in a flame retardant ABS plastic case.

The PCB Number is 1328

All connectors and LED's are mounted directly on to the circuit board.

The circuit board size is approximately 69mm X 159mm

The unit size is approximately 166mm X 77mm with a height of 32mm



Installation

Powering the Adaptor

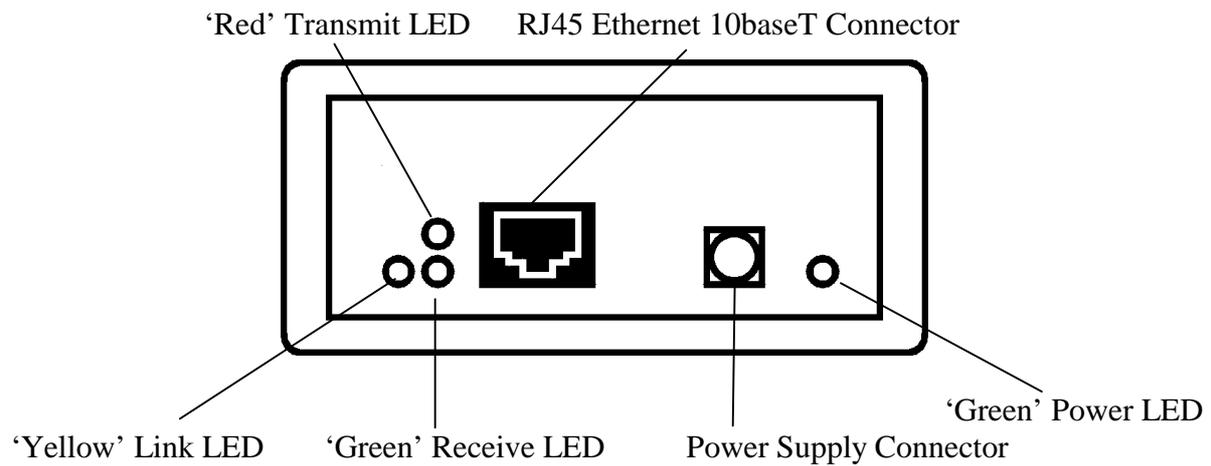
Connect the Power Supply lead/plug to the socket on the Ethernet panel of the Adaptor (as shown in the following diagram). Connect the power cable to the Power Supply Unit and to the electricity supply.

The Power LED lights up and the Adaptor is ready for operation.

Note. If there is a delay in connecting the Adaptor to the Token Ring Network after power up, it may be necessary to restart the Adaptor in order to make the network link good.

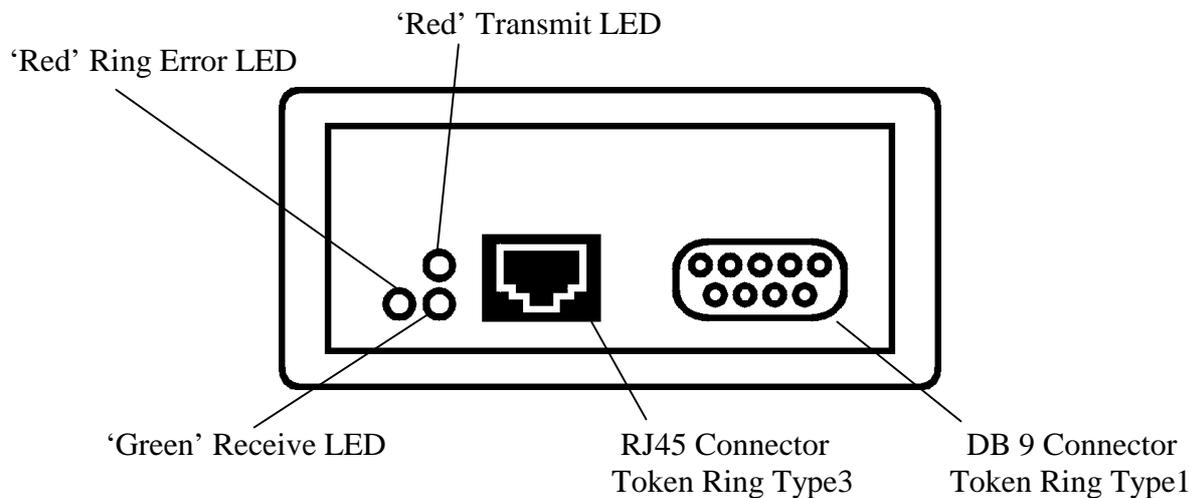
External View

Connectors and LED's on the Ethernet panel.



Ethernet To Token Ring Adaptor

Connectors and LED's on the Token Ring Panel.



Connecting the Adaptor

Ethernet Panel.

Insert the **RJ45 10baseT** cable from the required Ethernet device (for example a Network ready printer) into the Ethernet end of the Adaptor.

.

The 'Green' Receive LED will blink when the Adaptor receives data from the Ethernet device.

The 'Red' Transmit LED will blink when the Adaptor transmits data to the Ethernet device.

The 'Yellow' Link LED will blink whenever data is passed to and from the Ethernet device and the Adaptor.

Token Ring Panel.

Insert either a Type 3 cable with a RJ45 connector or Type 1 cable with a 9way DB connector from the Token Ring Network (i.e. a Token Ring Hub) into the appropriate connector on the Token Ring panel. The Adaptor will automatically sense which connector and ring speed is in use.

The 'Red' Error LED will light when there is an error on the Token Ring Network.

The 'Green' Receive LED will blink when the Adaptor receives data from the Network.

The 'Red' Transmit LED will blink when the Adaptor transmits data to the Token Ring Network.



The Ethernet to Token Ring Adaptor is now fully operational, and its performance can be monitored by the LED indicators.



Technical Specification

Power Supply (AC Adapter)	Input: 110 ~ 240 VAC, 50/60 Hz, single phase Output: 5 Volts DC, 950 MA
Power consumption	2.1 Watts
Communication speeds	Token Ring 4 or 16 MHz Auto sensing Ethernet 10Mbit's
Connectors	Token Ring Type 3 RJ45 and Type 1 DB 9 Ethernet RJ45 10baseT
Operating environment	Temperature: 10°C to 35°C Relative Humidity: 15% to 70%



Troubleshooting

<i>Symptom</i>	<i>Possible Cause</i>	<i>Action</i>
Power LED does not light.	AC cable not connected to PSU. DC Power cable not attached to Adaptor.	Check connections and secure plugs.
Link / Transmit / Receive LED's not blinking.	No cable inserted.	Check connections - Adaptor to Ethernet device and Token Ring network.
	Devices not powered up	Check attached Ethernet device is powered on.
	Wrong cable types	Verify correct cable types.
	Faulty cable.	Replace cable.
Token Ring LED's don't blink or Error LED is on.	Delay in connecting Network connections after the Adaptor was powered up	Re-start Adaptor.



Versions and Download

To perform a Version check or Download a new release of Firmware to the Adaptor it will be necessary to connect the Token Ring side of the Adaptor to an isolated network with one PC attached and set to an IP address of **11.22.33.40**

Version Check.

Open a Telnet session to 11.22.33.40 using port 9100. Information and Firmware version number will be displayed.

Firmware Upgrade.

Should it become necessary to upgrade the Firmware, the Telnet Port 9100 protocol can be used. Please check with Technical support for details.

