

D-Link[®]
Building Networks for People

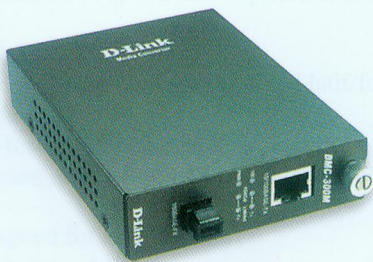
DMC-300M

DMC-300SC

DMC-515SC

DMC-530SC

DMC-560SC



10/100Base-TX to 100Base-FX

Media Converter
Manual

TABLE OF CONTENTS

TABLE OF CONTENTS....2

INTRODUCTION.....3

| | |
|-----------------------------|---|
| ABOUT MEDIA CONVERTER | 3 |
| PRODUCT FEATURES..... | 3 |

INSTALLATION.....4

| | |
|--|---|
| SELECTING A SITE FOR THE EQUIPMENT | 4 |
| CONNECTING TO POWER | 5 |
| SLIDING SWITCH..... | 5 |
| CONNECTING TO POWER | 6 |
| INSTALLING IN A CHASSIS..... | 6 |
| LED INDICATOR..... | 7 |

SPECIFICATIONS8



RECYCLABLE

ver. 1.00

29071600M110MM4

INTRODUCTION

Thank you for choosing the 10/100BASE Fast Ethernet Media Converter, The Converter introduced here provides one channel media conversion between 10/100BASE-TX and 100BASE-FX.

About Media Converter

The Media Converter is a network technology specified by IEEE 802.3 10BASE-T, IEEE802.3u 100BASE-TX, 100BASE-FX standards.

Product Features

- ✓ One-channel media conversion between 10/100BASE-TX and 100BASE-FX
 - ✓ Fiber media allows: multi-mode fiber using SC (for DMC-300SC), or MT-RJ (for DMC-300M) connector; single-mode fiber using SC (for DMC-515SC/DMC-530SC/DMC-560SC) connector
 - ✓ Auto negotiation of speed and duplex mode on TX port
 - ✓ Auto MDI-X on TX port
 - ✓ One slide switch for configuring fixed half/full duplex modes
 - ✓ Store-and-forward mechanism
 - ✓ Back-pressure & IEEE802.3x compliant flow control
 - ✓ Full wire-speed forwarding rate
 - ✓ Front panel status LEDs
 - ✓ Used as a stand-alone device or with a chassis
 - ✓ Hot-swappable when used with a chassis
-

INSTALLATION

This chapter gives step-by-step installation instructions for the Converter.

Selecting a Site for the Equipment

As with any electric device, you should place the equipment where it will not be subjected to extreme temperatures, humidity, or electromagnetic interference. Specifically, the site you select should meet the following requirements:

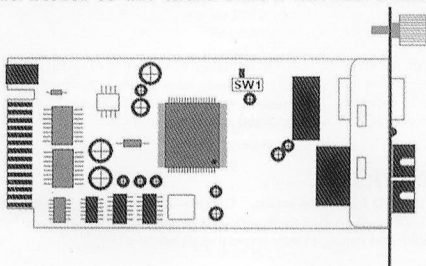
1. The ambient temperature should be between 32 and 104 degrees Fahrenheit (0 to 40 degrees Celsius).
2. The relative humidity should be less than 90 percent, non-condensing.
3. Surrounding electrical devices should not exceed the electromagnetic field (RFC) standards for IEC 801-3, Level 2 (3V/M) field strength.
4. Make sure that the equipment receives adequate ventilation. Do not block the ventilation holes on each side of the switch or the fan exhaust port on the side or rear of the equipment.
5. The power outlet should be within 1.8 meters of the switch.



Connecting to Power

1. This Converter is a plug-and-play device.
2. Connect the supplied AC to DC power adaptor with a power voltage of 7.5Vdc/1.5Amp to the receptacle on the rear panel of the converter, and then attach the plug into a standard AC outlet.

Sliding Switch

There is a sliding switch for duplex mode setting for fiber port. Refer to the table below for more details.



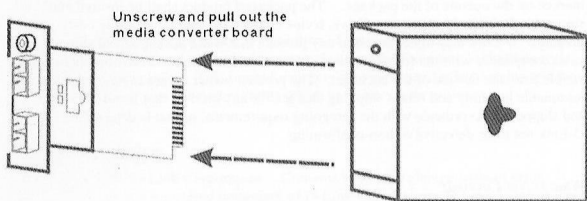
| | | | |
|---|-------------|---|-----------------------|
|  | Half Duplex |  | Full Duplex (default) |
|---|-------------|---|-----------------------|

Connecting to Power

3. This Converter is a plug-and-play device.
4. Connect the supplied AC to DC power adaptor with a power voltage of 7.5Vdc/1.5Amp to the DC-Jack on the converter, and then attach the plug into a standard AC outlet.

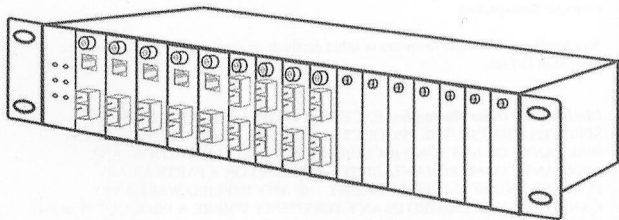
Installing in a Chassis

The Converter can be fit into any of the expansion slots on a special designed chassis.



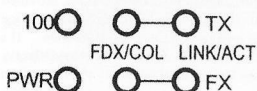
- First, install the converter onto a carrier supplied with the chassis:

- Step 1- Unscrew and pull out the media converter board.
- Step 2- Plug in the media board to any of the vacant slot.
- Step 3- Fit the converter onto the carrier and use the screw to secure it.



LED Indicator

The LED indicators give you instant feedback on status of the converter:



| LEDs | State | Indication |
|--|----------------|--|
| Power (PWR) | Steady | Power on |
| | Off | Power off |
| 100 Mbps (100) | Steady | Runs at 100Mbps on TX port |
| | Off | Runs at 10Mbps on TX port |
| TX Port (TX) FX Port (FX) FDX/COL | Steady (FDX) | Connection in full duplex mode FDX stands for FULL-DUPLEX |
| | Lights off | Connection in half duplex mode |
| | Blinking (COL) | Data collision |
| TX Port (TX) FX Port (FX) LINK/ACT | Steady (LINK) | A valid network connection established |
| | Lights off | Not Linking |
| | Blinking (ACT) | Transmitting or receiving data ACT stands for Activity |

SPECIFICATIONS

| | |
|----------------------|---|
| Applicable Standards | IEEE 802.3 10BASE-T IEEE802.3u 100BASE-TX & 100BASE-FX |
| Fixed Ports | 1 TX port, 1 FX port |
| Speed | 10/20Mbps for half/full-duplex 100/200Mbps for half/full-duplex |
| Forwarding rate | 148,800pps |
| LED Indicators | Per Unit- (2 LEDs): Power; Speed(100) Per Port- (2 LEDs): FDX/COL, LINK/ACT |
| Cable | 10BASE-T -- 2-pair UTP Cat. 3,4,5, up to 100 m (328 ft) 100BASE-TX -- 2-pair UTP Cat. 5, up to 100 m (328 ft) 100BASE-FX -- 62.5/125um multi-mode fiber optic cable, up to 2 km (for DMC-300M/DMC-300SC) 9/125um single-mode fiber optic cable, up to 15 km (for DMC-515SC) 9/125um single-mode fiber optic cable, up to 30 km (for DMC-530SC) 9/125um single-mode fiber optic cable, up to 60 km (for DMC-560SC) |
| Dimensions | L120 x W88 x H25 mm |
| Weight | 305 g |
| Power | External power adaptor 7.5V 1.5A |
| Power Consumption | 7.2W Max. |
| Temperature | Operating:0°C ~ 40°C (32°F ~ 104°F) Storage: -25°C ~ 70°C (-13°F ~ 158°F) |
| Humidity | 10 ~ 90%, non-condensing |
| Emissions | FCC part 15 Class A, CISPR ClassA, VCCI Class A, CE Mark |

Registration Card

Print, type or use block letters.

Your name: Mr./Ms _____
 Organization: _____ Dept. _____
 Your title at organization: _____
 Telephone: _____ Fax: _____
 Organization's full address: _____
 _____ Country: _____
 Date of purchase (Month/Day/Year): _____

| Product Model | Product Serial No. | * Product installed in type of computer (e.g., Compaq 486) | * Product installed in computer serial No. |
|---------------|--------------------|--|--|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

(* Applies to adapters only)

Product was purchased from:

Reseller's name: _____
 Telephone: _____ Fax: _____
 Reseller's full address: _____

Answers to the following questions help us to support your product:

1. **Where and how will the product primarily be used?**
 Home Office Travel Company Business Home Business Personal Use
2. **How many employees work at installation site?**
 1 employee 2-9 10-49 50-99 100-499 500-999 1000 or more
3. **What network protocol(s) does your organization use ?**
 XNS/IPX TCP/IP DECnet Others _____
4. **What network operating system(s) does your organization use ?**
 D-Link LANsmart Novell NetWare NetWare Lite SCO Unix/Xenix PC NFS
 3Com 3+Open Banyan Vines DECnet Pathwork Windows NT
 Windows NTAS Windows '95 Others _____
5. **What network management program does your organization use ?**
 D-View HP OpenView/Windows HP OpenView/Unix SunNet Manager
 NovellIMS NetView6000 Others _____
6. **What network medium/media does your organization use ?**
 Fiber-optics Thick coax Ethernet Thin coax Ethernet 10BASE-T UTP/STP
 100BASE-TX 100BASE-T4 100VGAnyLAN Others _____
7. **What applications are used on your network?**
 Desktop publishing Spreadsheet Word processing CAD/CAM
 Database management Accounting Others _____
8. **What category best describes your company?**
 Aerospace Engineering Education Finance Hospital Legal
 Insurance/Real Estate Manufacturing Retail/Chainstore/Wholesale
 Government Transportation/Utilities/Communication VAR
 System house/company Other _____
9. **Would you recommend your D-Link product to a friend?**
 Yes No Don't know yet
10. **Your comments on this product?** _____



TO:

D-Link®

FCC Warning

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CE Mark Warning

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Warnung!

Dies ist ein Produkt der Klasse A. Im Wohnbereich kann dieses Produkt Funkstörungen verursachen. In diesem Fall kann vom Benutzer verlangt werden, angemessene Massnahmen zu ergreifen.

Precaución!

Este es un producto de Clase A. En un entorno doméstico, puede causar interferencias de radio, en cuyo caso, puede requerirse al usuario para que adopte las medidas adecuadas.

Attention!

Ceci est un produit de classe A. Dans un environnement domestique, ce produit pourrait causer des interférences radio, auquel cas l'utilisateur devrait prendre les mesures adéquates.

Attenzione!

Il presente prodotto appartiene alla classe A. Se utilizzato in ambiente domestico il prodotto può causare interferenze radio, nel cui caso è possibile che l'utente debba assumere provvedimenti adeguati.

VCCI Warning

この装置は、クラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。

VCCI-A

LIMITED WARRANTY

D-Link Systems, Inc. ("D-Link") provides this limited warranty for its product only to the person or entity who originally purchased the product from D-Link or its authorized reseller or distributor.

Limited Hardware Warranty: D-Link warrants that the hardware portion of the D-Link products described below ("Hardware") will be free from material defects in workmanship and materials from the date of original retail purchase of the Hardware, for the period set forth below applicable to the product type ("Warranty Period") if the Hardware is used and serviced in accordance with applicable documentation; provided that a completed Registration Card is returned to an Authorized D-Link Service Office within ninety (90) days after the date of original retail purchase of the Hardware. If a completed Registration Card is not received by an authorized D-Link Service Office within such ninety (90) period, then the Warranty Period shall be ninety (90) days from the date of purchase.

| <i>Product Type</i> | <i>Warranty Period</i> |
|---|-------------------------------|
| Product (excluding power supplies and fans) | One (1) Year |
| Power Supplies and Fans | One (1) Year |
| Spare parts and spare kits | Ninety (90) days |

D-Link's sole obligation shall be to repair or replace the defective Hardware at no charge to the original owner. Such repair or replacement will be rendered by D-Link at an Authorized D-Link Service Office. The replacement Hardware need not be new or of an identical make, model or part; D-Link may in its discretion may replace the defective Hardware (or any part thereof) with any reconditioned product that D-Link reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. The Warranty Period shall extend for an additional ninety (90) days after any repaired or replaced Hardware is delivered. If a material defect is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to repair or replace the defective Hardware, the price paid by the original purchaser for the defective Hardware will be refunded by D-Link upon return to D-Link of the defective Hardware. All Hardware (or part thereof) that is replaced by D-Link, or for which the purchase price is refunded, shall become the property of D-Link upon replacement or refund.

Limited Software Warranty: D-Link warrants that the software portion of the product ("Software") will substantially conform to D-Link's then current functional specifications for the Software, as set forth in the applicable documentation, from the date of original delivery of the Software for a period of ninety (90) days ("Warranty Period"), if the Software is properly installed on approved hardware and operated as contemplated in its documentation. D-Link further warrants that, during the Warranty Period, the magnetic media on which D-Link delivers the Software will be free of physical defects. D-Link's sole obligation shall be to replace the non-conforming Software (or defective media) with software that substantially conforms to D-Link's functional specifications for the Software. Except as otherwise agreed by D-Link in writing, the replacement Software is provided only to the original licensee, and is subject to the terms and conditions of the license granted by D-Link for the Software. The Warranty Period shall extend for an additional ninety (90) days after any replacement Software is delivered. If a material non-conformance is incapable of correction, or if D-Link determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original licensee for the non-conforming Software will be refunded by D-Link; provided that the non-conforming Software (and all copies thereof) is first returned to D-Link. The license granted respecting any Software for which a refund is given automatically terminates.

What You Must Do For Warranty Service:

Registration Card. The Registration Card provided at the back of this manual must be completed and returned to an Authorized D-Link Service Office for each D-Link product within ninety (90) days after the product is purchased and/or licensed. The addresses/telephone/fax list of the nearest Authorized D-Link Service Office is provided in the back of this manual. **FAILURE TO PROPERLY COMPLETE AND TIMELY RETURN THE REGISTRATION CARD MAY AFFECT THE WARRANTY FOR THIS PRODUCT.**

Submitting A Claim. Any claim under this limited warranty must be submitted in writing before the end of the Warranty Period to an Authorized D-Link Service Office. The claim must include a written description of the Hardware defect or Software nonconformance in sufficient detail to allow D-Link to confirm the same. The original product owner must obtain a Return Material Authorization (RMA) number from the Authorized D-Link Service Office and, if requested, provide written proof of purchase of the product (such as a copy of the dated purchase invoice for the product) before the warranty service is provided. After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package. The packaged product shall be insured and shipped to D-Link, 53 Discovery Drive, Irvine CA 92618, with all shipping costs prepaid. D-Link may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay D-Link's reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by D-Link not to be defective or non-conforming.

What Is Not Covered:

This limited warranty provided by D-Link does not cover:

Products that have been subjected to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tampered with, defaced or removed;

Initial installation, installation and removal of the product for repair, and shipping costs;

Operational adjustments covered in the operating manual for the product, and normal maintenance;

Damage that occurs in shipment, due to act of God, failures due to power surge, and cosmetic damage; and

Any hardware, software, firmware or other products or services provided by anyone other than D-Link.

Disclaimer of Other Warranties: EXCEPT FOR THE LIMITED WARRANTY SPECIFIED HEREIN, THE PRODUCT IS PROVIDED "AS-IS" WITHOUT ANY WARRANTY OF ANY KIND INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. IF ANY IMPLIED WARRANTY CANNOT BE DISCLAIMED IN ANY TERRITORY WHERE A PRODUCT IS SOLD, THE DURATION OF SUCH IMPLIED WARRANTY SHALL BE LIMITED TO NINETY (90) DAYS. EXCEPT AS EXPRESSLY COVERED UNDER THE LIMITED WARRANTY PROVIDED HEREIN, THE ENTIRE RISK AS TO THE QUALITY, SELECTION AND PERFORMANCE OF THE PRODUCT IS WITH THE

PURCHASER OF THE PRODUCT.

Limitation of Liability: TO THE MAXIMUM EXTENT PERMITTED BY LAW, D-LINK IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT RETURNED TO D-LINK FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT, RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY, EVEN IF D-LINK HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE FOREGOING LIMITED WARRANTY IS REPAIR, REPLACEMENT OR REFUND OF THE DEFECTIVE OR NON-CONFORMING PRODUCT.

GOVERNING LAW: This Limited Warranty shall be governed by the laws of the state of California.

Some states do not allow exclusion or limitation of incidental or consequential damages, or limitations on how long an implied warranty lasts, so the foregoing limitations and exclusions may not apply. This limited warranty provides specific legal rights and the product owner may also have other rights which vary from state to state.

Trademarks

Copyright ©2001 D-Link Corporation. Contents subject to change without prior notice. D-Link is a registered trademark of D-Link Corporations/D-Link Systems, Inc. All other trademarks belong to their respective proprietors.

Copyright Statement

No part of this publication may be reproduced in any form or by any means or used to make any derivative such as translation, transformation, or adaptation without permission from D-Link Corporation/D-Link Systems Inc., as stipulated by the United States Copyright Act of 1976.

NOTES

NOTES