



From left to right: DFE-855 twisted-pair to fiber-optics media converter, DFE-854 fiber-optics transceiver and DFE-853 twisted-pair transceiver for Fast Ethernet.

## Fast Ethernet Transceivers and Converters

D-Link Fast Ethernet transceivers and converters present a flexible and cost-effective solution for device attachment. They provide ease of connectivity not only between multiple network media, but also compatibility with all third-party hardware.

### All Media Support

From twisted-pair cabling to fiber-optics, D-Link's transceiver and media converters support all types of Fast Ethernet media to meet all users' cable requirements.

### Full and Half Duplex Support

All models provide high-speed and reliable connectivity between network media. The DFE-853 comes equipped with a NWay dual speed port that automatically detects full, or half duplex and Ethernet, or Fast Ethernet and adjusts accordingly without the need for user configuration. DFE-855 supports NWay full/half duplex in 100BASE-TX mode.

### Diagnostic LEDs

All models have easy-to-view LED indicators to provide continuous status reports on network speed, full, or half duplex connection, and network traffic for easy troubleshooting.

### Compatibility

D-Link's transceivers and media converters comply strictly with IEEE 802.3u 100BASE-TX/FX Fast Ethernet standard, and operate with all standard-compliant hardware. Furthermore, the transceivers come with adjustable PHY addresses from 00h to 1Fh, ensuring compatibility with all available Fast Ethernet hardware.

### Applicable to All Situations

The transceivers can be used to connect to MII ports on a hub, or switch to a twisted-pair or fiber segment on the network. The media converters serve to link a 100BASE-TX twisted-pair segment to a 100BASE-FX fiber segment, providing users with multiple media connection when required.

### Key Features

- IEEE 802.3u 100BASE-TX, 100BASE-FX Fast Ethernet standard
- IEEE 802.3 10BASE-T Ethernet standard
- Support fiber-optics distance up to 2 km max.
- Support twisted-pair distance up to 100 m max.
- RJ-45 NWay port (twisted-pair transceivers)
- Standard MII and SC-type fiber optic port (fiber-optics transceivers)
- 32 user-selectable PHY addresses (00h-1Fh) (transceivers only)
- Easy-to-view LED indicators for troubleshooting
- Automatic polarity correction (twisted-pair transceivers)



# Transceivers & Media Converters

## Technical Specifications

### General

#### Standard

- IEEE 802.3 10BASE-T Ethernet
- IEEE 802.3u 100BASE-TX/FX Fast Ethernet

#### Protocol

CSMA/CD

#### Data Transfer Rate

- Ethernet
- 10Mbps (half duplex)
- 20Mbps (full duplex)
- Fast Ethernet
- 100Mps (half duplex)
- 200Mps (full duplex)

#### Topology

Star

#### LED Report

- DFE-853:
  - Power/Tx Link/Rx
  - Full-Duplex/Half-Duplex
  - Collision
  - 10/100Mbps speed
- DFE-854:
  - Power/Tx Link/Rx
  - Full-Duplex/Half-Duplex
  - Collision
- DFE-855:
  - Power TX Link/Rx
  - FX Link/Rx

#### Cable Length

- 10BASE-T:
  - 2-pair UTP Cat. 3, 4, 5 (100 m)
- 10BASE-T, 100BASE-TX:
  - EIA/TIA-586 100-ohm screened twisted pair (STP) (100m)
- 100BASE-TX:
  - 2-pair UTP Cat. 5 (100 m)
- 100BASE-FX:
  - Fiber optics 62.5/125 micron multimode (2 km)

#### Connectors

- DFE-853:
  - MII port: 40-pin mini-SCSI x 1
  - NWay port: shielded RJ-45 x 1
- DFE-854:
  - MII port: 40-pin mini-SCSI x 1
  - Fiber port: SC type for 62.5/125 micron x 1
- DFE-855:
  - Standard RJ-45 100BASE-TX x 1
  - Fiber port: SC type for 62.5/125 micron x 1

#### PHY Address Selection

- DFE-853:
  - 32 DIP-switch selectable addresses (00h - 1Fh)
- DFE-854:
  - 32 DIP-switch selectable addresses (00h - 1Fh)

#### Full/half-duplex Selection

- DFE-853: via DIP switch
- DFE-854: via DIP switch
- DFE-855: user-transparent

#### Power Consumption

- DFE-853: 2 watts
- DFE-854: 3 watts
- DFE-855: 3.5 watts

#### Weight

- DFE-853: 0.14kg (4.94 oz.)
- DFE-854: 0.14kg (4.94 oz.)
- DFE-855: 0.16kg (5.65 oz.)

#### Dimensions

- DFE-853:
  - 50mm x 20.4mm x 119.4mm (1.97" x 0.8" x 4.7")
- DFE-854:
  - 50mm x 20.4mm x 121.2mm (1.97" x 0.8" x 4.77")
- DFE-855:
  - 62mm x 22.5mm x 115mm (2.91" x 0.89" x 4.53")

#### Operating Temperature

0 - 55 C (14 - 131 F)

#### Storage Temperature

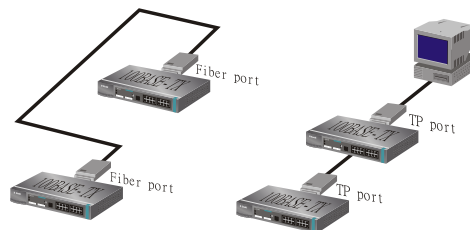
-25 - 55 C (-13 - 131 F)

#### Humidity

5% - 90% non-condensing

#### Emissions (EMI)

- CE
- FCC Class A
- VCCI Class A
- C-Tick



## Ordering Information

### Fast Ethernet Transceivers

- DFE-853** 10/100Mps NWay twisted-pair transceiver
- DFE-854** 100BASE-FX fiber-optics transceiver

### Fast Ethernet Media Converter

- DFE-855** 100BASE-TX/100BASE-FX media converter (100 - 240 VAC 5VDC 1 Ampair universal AC power adapter included)

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## Physical and Environment

