

## 100Base-FX BiDi to 10/100 Base-TX Media Converter

### Introduction:

The FHC-1500 and FHC-1520 single mode fiber media converters extend the 100 meter distance limit of copper TX interfaces. To do that, they utilize a 100BASE-FX single mode, single-fiber bidirectional (BiDi) interface and a 10/100Base-TX copper interface. The 100Base-FX interface utilized internal WDM technology. This technology allows you to transmit and receive data over a single, single mode fiber, thus reducing your fiber count by 50%, versus traditional media converters. Our media converters are designed to comply with IEEE 802.3u 10/100Base-TX and 100Base-FX standards.



BiDi media converters are only sold in pairs. One converter will transmit at 1550nm and receive at 1310nm, while the other converter in the pair transmits at 1310nm and receives data at 1550nm.

Other features of this converter include Auto MDI/MDI-X on the TX port, Auto negotiation of duplex mode on TX port, and frontpanel status LEDs.

### Features:

- Auto negotiation of 10/100Base-TX and auto MDI/MDIX on 10/100Base-TX port
- Link Fault Pass through and Far End Fault detection
- Utilizes WDM technology, transmitting and receiving data on one single fiber
- Extend fiber distances: FHC-1500 up to 10km, FHC-1520 up to 20km
- Easy-to-view LED indicators provide status to monitor network activity
- External power supply

**Specifications:**

Parameter	Specifications
<b>Optical Port</b>	
Wavelength	1550nm /1310nm
Distance	FHC-1500 10km, FHC-1520 20Km
100BASE-BiDi	One Single-mode Fiber Port
Connector	Single SC/UPC
<b>Ethernet Port</b>	
Connector	RJ-45
Speed	10/100 Mbps line speed
Network 10/100BASE-T	UTP category 5, 5e cable (maximum 100m)
<b>Power Supply</b>	
Input voltage	AC/DC Adapter- 110VAC
Power Supply	Output 5VDC 1000mA Max
LED Indicators	PWR, FDX/Col, Link/Act, SPD
Power	5VDC 5W Max

Operating Environment	
Temperature	0°C-55°C
Humidity	5%-95%, Non-Condensing
Physical Dimensions of Converter	
4.2"x2.8"x 1.1"	

**Ordering information:**

Model	Details
FHC-1500	100M BiDi media converter, Single Mode, Single-Fiber, SC,1310/1550nm, 10KM
FHC1520	100M BiDi Media Converter, Single Mode, Single-Fiber, SC, 1310/1550nm, 20KM