

FIBER OPTIC BROADCAST AUDIO/VIDEO/DATA TRANSMISSION SYSTEMS

— SHORT-HAUL ANALOG VIDEO AND STUDIO-QUALITY ANALOG AUDIO

— SDI, HD-SDI, ATSC, DVB-ASI

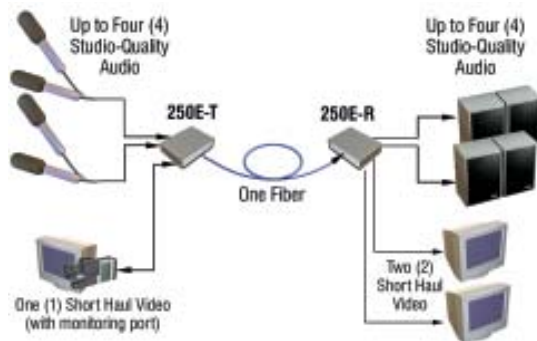
— AES/EBU, RS-232/422, SNMP

FIBER OPTIC SHORT-HAUL ANALOG AUDIO/VIDEO LINKS

250E SERIES

Transmits one short-haul analog video and up to four audio simultaneously over 1 fiber

$$\frac{V}{1} \rightarrow \frac{A}{4} \quad \text{or} \quad \frac{V}{1} \leftarrow \frac{A}{4} \leftarrow \frac{D}{1}$$



- Combination of TDM and WDM technique
- Breaking one or more signals has no interference on rest of signals
- Option for RS-232/422 insertion

252/254 SERIES

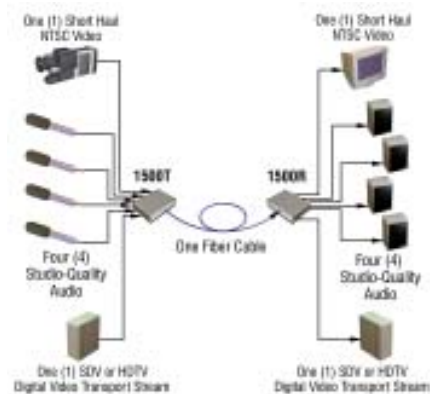
Transmits 2 or 4 short-haul analog video and up to 8 or 16 audio simultaneously over 1 fiber

$$\frac{V}{2} \rightarrow \frac{A}{8} \quad \text{or} \quad \frac{V}{4} \rightarrow \frac{A}{16}$$

1500E SERIES

Transmits one short-haul analog video and up to four audio, as well as SDI or HD-SDI simultaneously over 1 fiber

$$\frac{V}{1} \rightarrow \frac{A}{4} \rightarrow \frac{\text{SDI or HD-SDI}}{1}$$



FIBER OPTIC SDI OR HD-SDI LINKS

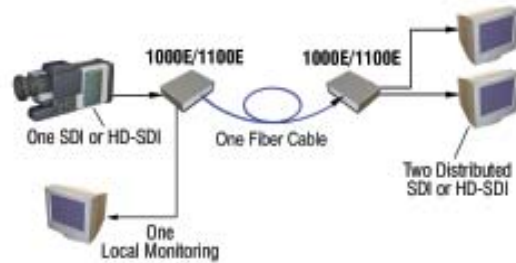
1000E SERIES

Transmits SMPTE-259 SDI over 1 fiber, up to 270 Mb/s



1100E SERIES

Transmits SMPTE-259/292 HD-SDI over 1 fiber up to 1.5 Gb/s

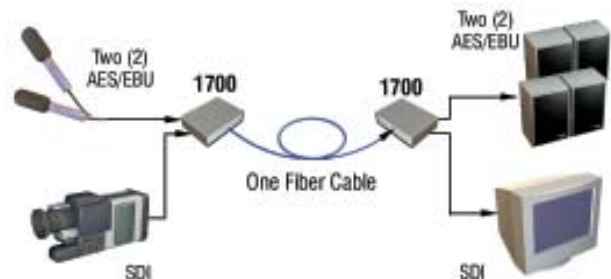


- Accommodates multiple formats: SDI, HD-SDI, ATSC, DVB-ASI and more
- Options with re-clocking circuit
- Video pathological test code compliant

FIBER OPTIC SDI AND AES/EBU LINKS

1700 SERIES

Transmits one SDI and two AES/EBU simultaneously over 1 fiber



- Time division multiplexing technique, not an embedded audio scheme
- Breaking SDI video has no interference on digital audio
- Option for RS-232/422 or analog audio insertion

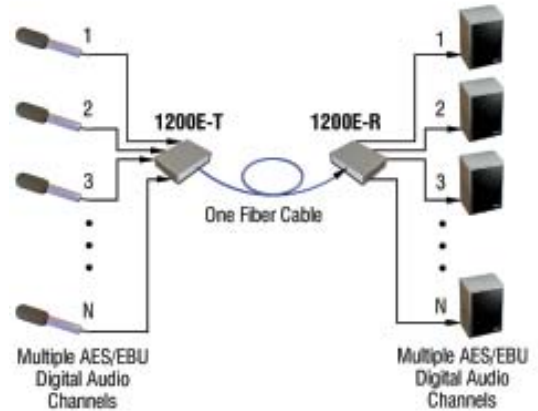
FIBER OPTIC MULTI-CHANNEL AES/EBU LINKS

1200E SERIES

Transmits 4-, 8- or 16-channel AES/EBU over 1 fiber



AES/EBU $\xrightarrow{4,8,16}$ or AES/EBU $\xleftrightarrow{4,8,16}$



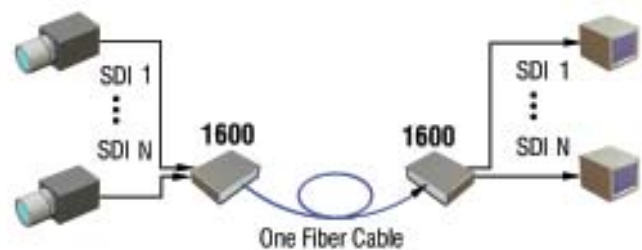
- Addresses sync or Async Digital Audio
- Popping sound eliminated during audio switching
- Accommodate 32, 44 and 48 KHz sampling frequency

FIBER OPTIC MULT-CHANNEL SDI LINKS

1600 SERIES

Transmits 4 or 8 SDI simultaneously over 1 fiber

SDI $\xrightarrow{4,8}$ or SDI $\xleftrightarrow{4,8}$ AES $\xleftrightarrow{4,8}$ D $\xleftrightarrow{4,8}$



- Combination of TDM and WDM technique
- Breaking one video has no interference on other video channels
- Option for RS-232/422 or analog audio insertion

FIBER OPTIC SERIAL DATA TRANSMISSION SYSTEMS

510E SERIES

Transmits sync/async RS-232/422/485 over 1 fiber

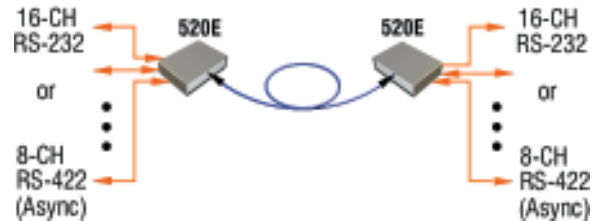
Sync/Async D
↔
1

- Choice of diversified serial data types
- Multi-rate, multi-channel, sync or async data with handshaking control

520E SERIES

Transmits multi-channel RS232/422 over 1 fiber

D
↔
8 or 16



SNMP NETWORK MONITORING SYSTEMS

BCI VIEW

HTTP Web Browser based SNMP network monitoring and configuration



- Generate SNMP alerts for critical events
- Provide secure password protected access
- Compliance with SNMP and HTTP standards
- Supports multiple chassis using one single IP address



BCI welcomes the opportunity to quote on custom, OEM/private brand and high volume products. Contact us to discuss your requirements.

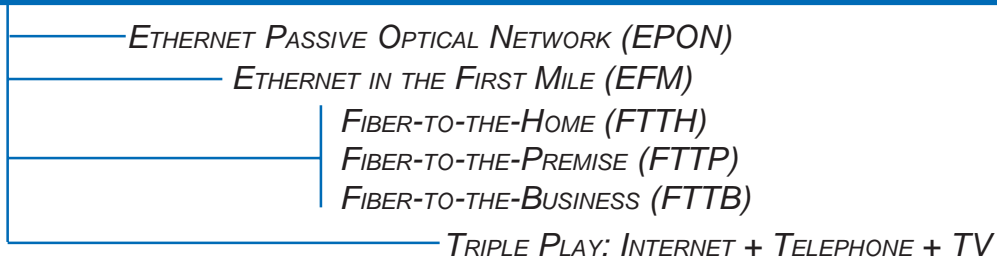
(800) 214-0222

Broadata Communications, Inc.
2545 W. 237th Street, Suite K
Torrance, CA 90505
Ph (310) 530-1416 Fax (310) 530-5958
Also visit our website <http://www.broadatacom.com>
Email: Broadata@Broadatacom.com



FIBER ACCESS NETWORKS

IEEE 802.3ah POINT-TO-POINT AND POINT-TO-MULTIPOINT USING FIBER



ETHERNET PASSIVE OPTICAL NETWORK (EPON)

A highly economical point-to-multipoint solution for 802.3ah Ethernet in the First Mile

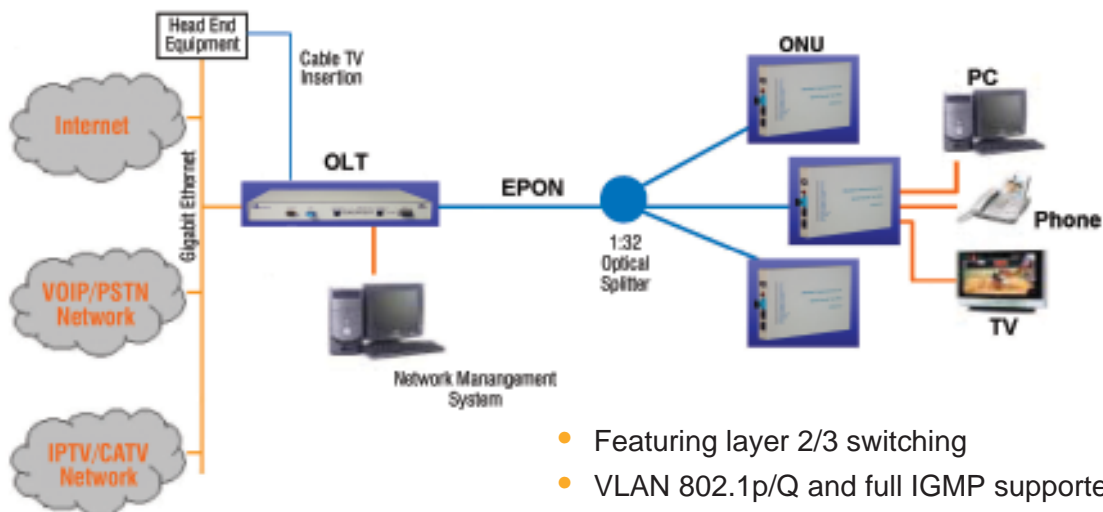
E8596-L OPTICAL LINE TERMINAL (OLT)

A network-side EPON platform supporting up to 32 ONU at a distance of up to 20 km



E8596-N OPTICAL NETWORK UNIT (ONU)

A customer premise device with two QoS-enabled 10/100 Ethernet ports



Solution also available for Cable TV Network Overlay over EPON

- Featuring layer 2/3 switching
- VLAN 802.1p/Q and full IGMP supported
- Up to 8 SLAs and 4 LLIDs per ONU
- Multi-level security and AES encryption supported
- Dynamic bandwidth allocation (DBA)
- IP and 802.3 MAC filtration

IN-BAND MANAGED POINT-TO-POINT ETHERNET NETWORK

A low-cost point-to-point solution for 802.3ah Ethernet in the First Mile



E8586-2

10/100Base-TX to 100Base-FX in-band managed switch media converter in a 16-slot 2RU chassis (head end) or in a standalone module (premise end)



E8588-2

10/100Base-TX Ethernet switch with 100Base-FX uplink

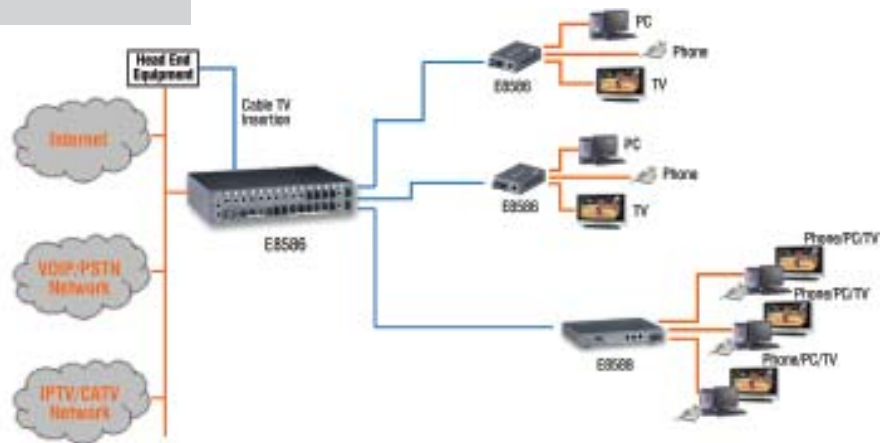
E8586-3

10/100/1000Base-TX to 1000Base-FX in-band managed switch media converter in a 16-slot 2RU chassis (head end) or in a standalone module (premise end)

E8588-3

10/100Base-TX Ethernet switch with 1000Base-FX uplink

- In-band loop back test
- Rate limiting configuration
- Redundant configuration
- In-band local and remote per-port management
- Support link pass through
- Store and forward switching mechanism



Solution also available for Cable TV Network Overlay over EPON

BCI welcomes the opportunity to quote on custom, OEM/private brand and high volume products. Contact us to discuss your requirements.

(800) 214-0222

Broadata Communications, Inc.
2545 W. 237th Street, Suite K
Torrance, CA 90505
Ph (310) 530-1416 Fax (310) 530-5958
Also visit our website <http://www.broadatacom.com>
Email: Broadata@Broadatacom.com



FIBER OPTIC MULTIMEDIA AUDIO/VIDEO/DATA TRANSMISSION SYSTEMS

DIGITAL SIGNAGE, AUDIO/VIDEO DISTRIBUTION

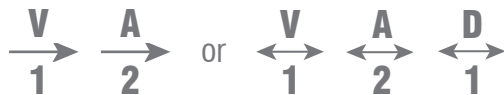
SECURITY SURVEILLANCE, TRAFFIC MONITORING/CONTROL

VIDEO CONFERENCING, DISTANCE LEARNING

FIBER OPTIC AUDIO/VIDEO/DATA LINKS

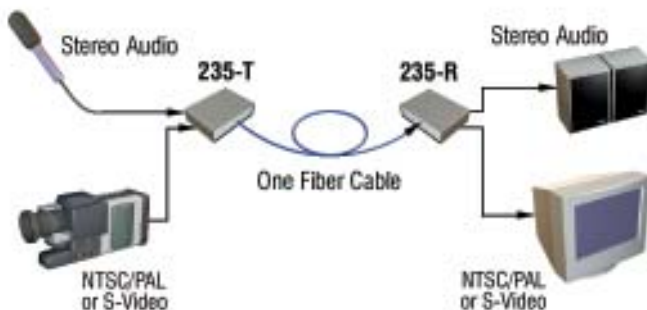
230/240 SERIES

Transmits 1 NTSC/PAL video and 2 audio one-way, or 1 NTSC/PAL video, 2 audio and 1 RS-232/422 two-way, over 1 fiber



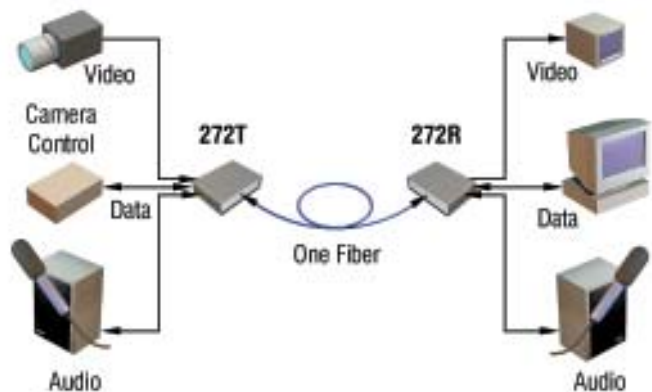
235 SERIES

Transmits 1 NTSC/PAL/S-video and 2 audio one-way, or 1 NTSC/PAL/S-video, 2 audio and 1 RS-232/422 two-way, over 1 fiber



271/272 SERIES

Transmits 1 NTSC/PAL video one-way with two-way audio and RS-232/422 over 1 fiber

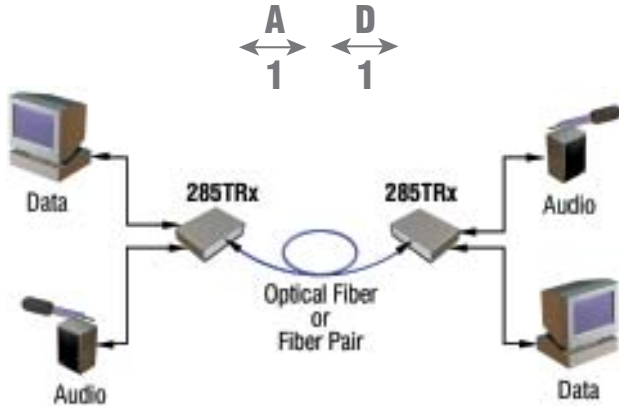


- Meets 250C medium haul video specs
- Digital encoded uncompressed audio/video transmission
- WDM, CWDM, and SNMP options

FIBER OPTIC AUDIO/DATA LINKS

285 SERIES

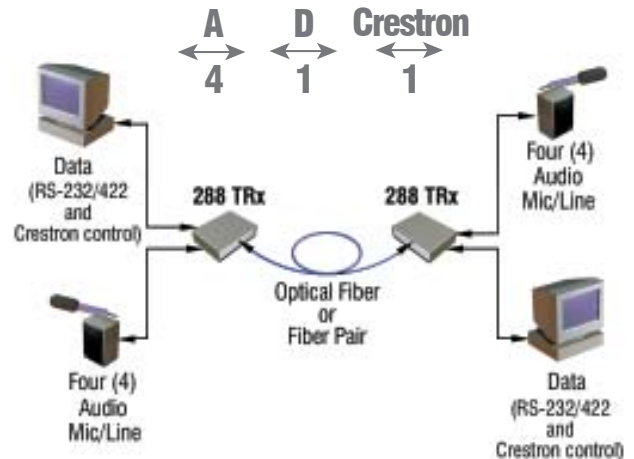
Transmits two-way 1 audio and 1 RS-232/422 over 1 fiber



- Digitally encoded uncompressed audio and data transmission
- WDM, CWDM, and SNMP options
- Crestron data only model available

288 SERIES

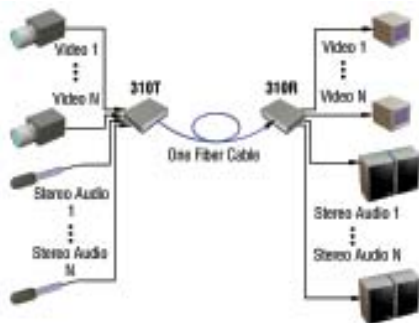
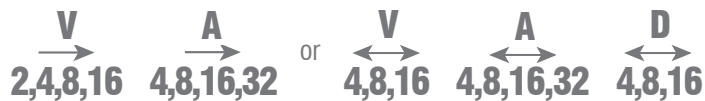
Transmits 2 mic audio, 2 line audio, 1 RS-232/422 and Crestron RS-485 over 1 fiber



FIBER OPTIC MULTI-CHANNEL AUDIO/VIDEO/DATA LINKS

310/320 SERIES

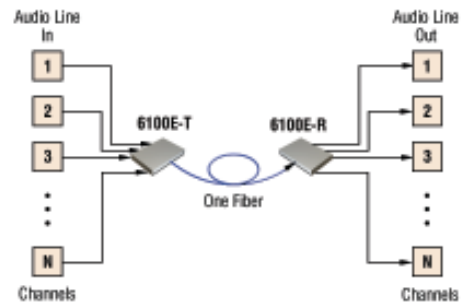
Transmits up to 16 video and 32 audio one-way or 16 video, 32 audio and 16 RS-232/422 two-way, over 1 fiber



- Digitally encoded uncompressed audio/video/data transmission
- WDM, CWDM, and SNMP options

6100E SERIES

Transmits up to 32 audio one-way, or 32 audio and 8 RS-232/422 two-way, over 1 fiber

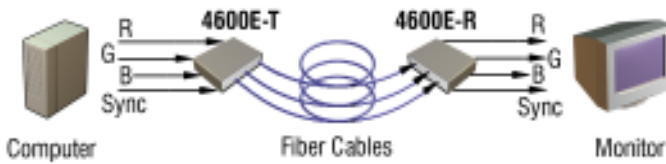


FIBER OPTIC RGB, DVI, OR FIREWIRE LINKS

4600E SERIES

Transmits RGB video with H&V sync over 3 fibers. Optional support for keyboard, mouse and stereo audio

RGBHV → 1
AKM ↔ 1



4700 SERIES

Transmits RGB video with H&V sync, as well as stereo audio, over 1 fiber

RGBHV → 1
A → 2

640 SERIES

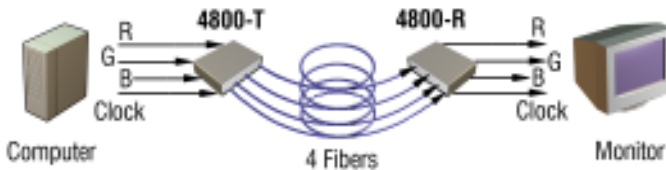
Transmits FireWire video over 1 fiber

FireWire → 1

4800 SERIES

Transmits DVI video with clock over 4 fibers

DVI → 1



- Up to 1600 x 1200 resolution
- WDM, CWDM, and SNMP options

TWISTED PAIR AUDIO/VIDEO/DATA LINKS

610/620 SERIES

Transmits RGB/sync video over CAT5 twisted pair cable

RGB-HV → 1

630 SERIES

Transmits NTSC/PAL video with audio over CAT5 twisted pair cable

V → 1 or V → 1 A → 1,2

641 SERIES

Transmits FireWire video over CAT5 twisted pair cable

FireWire → 1



SNMP NETWORK MONITORING SYSTEMS

BCI VIEW

HTTP Web Browser based SNMP network monitoring and configuration



- Generate SNMP alerts for critical events
- Provide secure password protected access
- Compliance with SNMP and HTTP standards
- Supports multiple chassis using one single IP address



BCI welcomes the opportunity to quote on custom, OEM/private brand and high volume products. Contact us to discuss your requirements.

(800) 214-0222

Broadata Communications, Inc.
2545 W. 237th Street, Suite K
Torrance, CA 90505
Ph (310) 530-1416 Fax (310) 530-5958
Also visit our website <http://www.broadatacom.com>
Email: Broadata@Broadatacom.com

FIBER CENTRIC NETWORK DATA SYSTEMS

- FIBER ROUTE PROTECTION SWITCHES
- WDM/CWDM SYSTEMS
- FIBER OPTIC REPEATERS
- FIBER CENTRIC MULTI-PORT ETHERNET SWITCHES
- FIBER CENTRIC ETHERNET MEDIA SWITCHING CONVERTERS
- FIBER OPTIC SERIAL DATA (RS-232/422/485, T1/E1) LINKS

FIBER ROUTE PROTECTION SWITCHES

Automated switching between primary and secondary paths in case of fiber break or equipment down.



912 SERIES

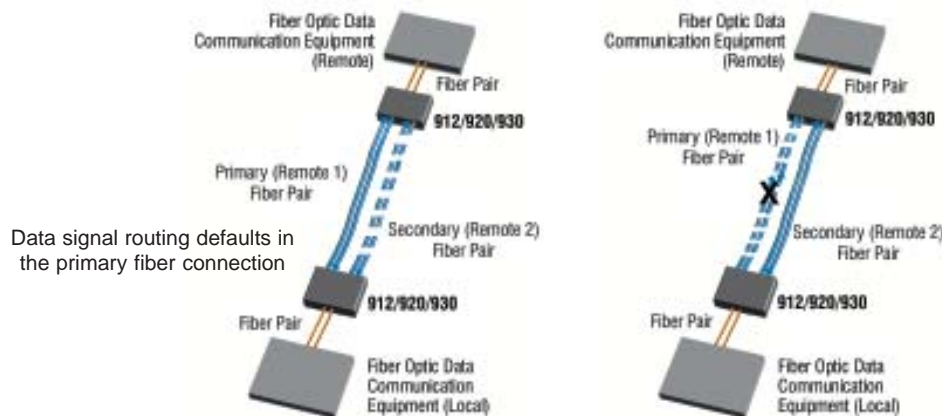
Electronically Switched Fiber Route Protection Systems up to 180 Mb/s

930 SERIES

Electronically Switched Fiber Route Protection Systems up to 1.25 Gb/s

920 SERIES

Optically Switched Fiber Route Protection Systems up to 1.25 Gb/s



When there is a fiber break, the 912/920/930 automatically switches the data signal to the secondary fiber connection. The solid line represents the data signal routing path, and the dashed line indicates there is no data signal present.

- Protection against fiber break and/or equipment failure
- Protocol independent protection
- User specified switching time/duration

WDM/CWDM OPTICAL SYSTEMS

Reduce fiber counts for the same channel capacity or increase channel capacity without additional fibers



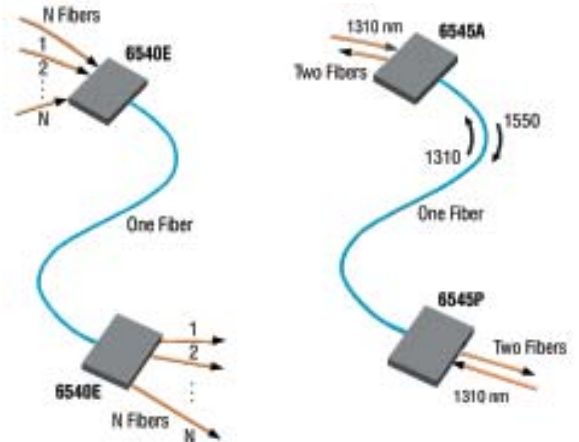
6540E SERIES

Scalable 4+1, 8+1, 16+1 Channel CWDM Systems

- Protocol independent wavelength division multiplexing
- No-hassle 2-ch active WDM modules retrofitting with existing 1310 nm 2-fiber equipment
- Highly scalable, as needed, CWDM wavelength expansion

6545 SERIES

Miniature Active 2-ch 1310/1550 WDM Modules



OPTICAL REPEATER SYSTEMS

Regenerate, re-time, and re-shape optical signals for further distance extension



6551 SERIES

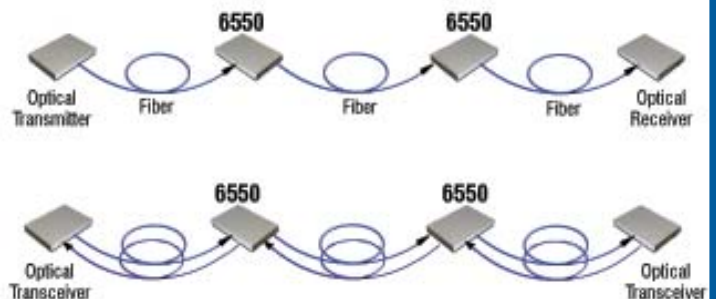
Optical Repeater Systems, up to 180 Mb/s

6552 SERIES

Optical Repeater Systems, up to 600 Mb/s

6553 SERIES

Optical Repeater Systems, up to 1.25 Gb/s



- Protocol independent optical signal repeating
- Unidirectional or bi-directional
- Multi-rate re-clocking

FIBER CENTRIC ETHERNET MEDIA SWITCHING CONVERTER

Converts between twisted pair and fiber cables for 10/100 and Gigabit Ethernet



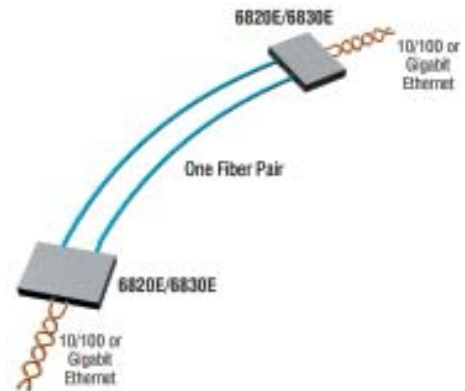
6820E SERIES

Fiber 10/100 Ethernet Switching Converters

- Unmanaged or managed, standalone module or converter center chassis
- WDM 1-fiber, ultra-long distance, redundancy
- Auto crossover twisted pair ports, support link pass through

6830E SERIES

Fiber Gigabit Ethernet Switching Converters



FIBER CENTRIC MULTI-PORT ETHERNET SWITCHES

Multi-port 10/100 Ethernet switches with uplink 10/100 or Gigabit Ethernet fiber ports



6860 SERIES

Up to 8-port 10/100Base-TX Ethernet Switches with 100Base-FX Fiber Uplinks

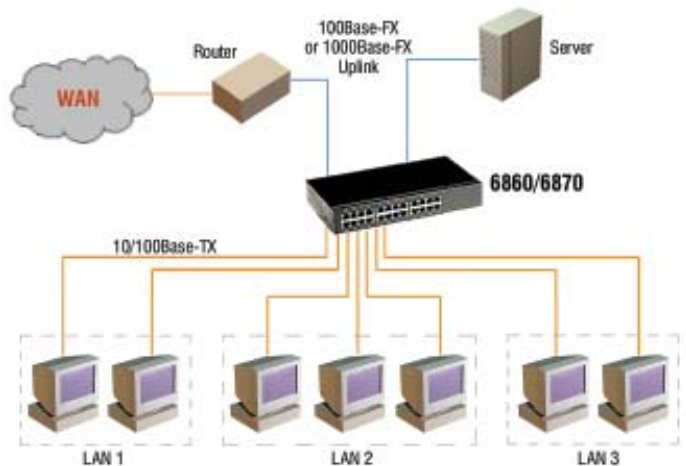
6870 SERIES

Up to 8-port 10/100Base-TX Ethernet Switches with 1000Base-FX Fiber Uplinks

- Store and forward switching
- Unmanaged or managed switches
- WDM 1-fiber, ultra-long distance

6880 SERIES

24-port 10/100Base-FX Ethernet Switches with 1000Base-TX/FX Uplinks



OPTICAL SERIAL DATA TRANSMISSION SYSTEMS

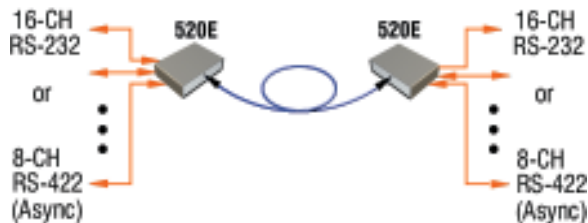
510E/512 SERIES

Fiber Optic Sync/Async RS-232/422/485 Transmission Systems



520E SERIES

Fiber Optic Multi-channel RS-232/422 Transmission Systems

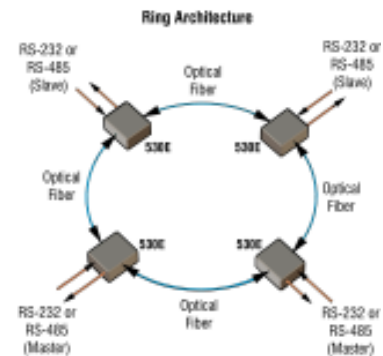


- Choice of diversified serial data types
- Multi-rate, multi-channel, sync or async, data with handshaking control
- WDM 1-fiber, ultra-long distance



530E SERIES

Fiber Optic RS-232/485 Add-Drop Data Transmission Systems



560E SERIES

Fiber Optic T1/E1 Transmission Systems

BCI welcomes the opportunity to quote on custom, OEM/private brand and high volume products. Contact us to discuss your requirements.

(800) 214-0222

Broadata Communications, Inc.
2545 W. 237th Street, Suite K
Torrance, CA 90505
Ph (310) 530-1416 Fax (310) 530-5958
Also visit our website <http://www.broadatacom.com>
Email: Broadata@Broadatacom.com



RF OVER FIBER LINKS

L-Band

CATV

CDMA/GSM

PCS/UMTS

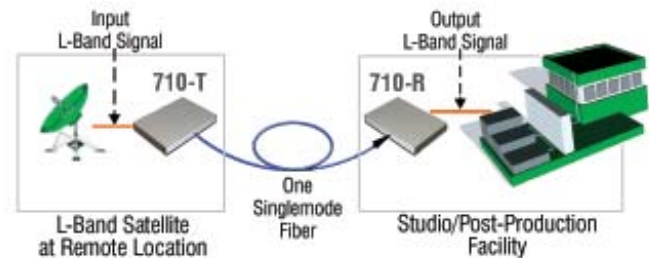
Broadband

L-BAND OVER FIBER

710 SERIES

L-Band Optical Transmission System

Transmits L-Band (950 MHz to 2150 MHz)
RF signal over singlemode fiber



- Beyond L-Band range
- Transmits all video, audio and data modulation formats
- Extended operating temperature (-40° C to +75° C)

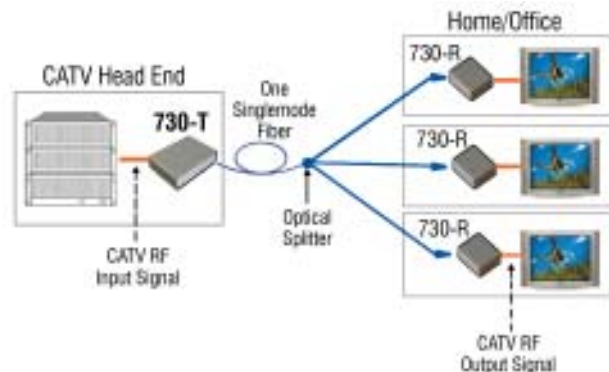
CATV OVER FIBER

730 SERIES

CATV Optical Transmission System

Transmits CATV (45 MHz to 870 MHz)
RF signal over singlemode fiber

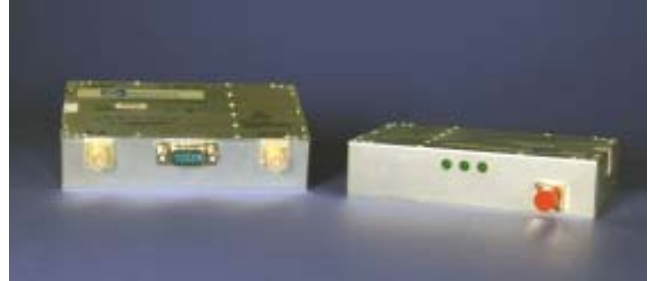
- AGC at receiver to maintain the same RF output
- Available with externally (1550nm) or directly (1310nm) modulated CATV transmitter
- Option with +14 dBm to +24 dBm EDFA
- Supports up to 110 Channel



721 SERIES

CDMA/GSM Optical Transmission System

*Bi-directionally transmits CDMA/GSM
(800 MHz to 960 MHz) RF signal and RS-232 over
singlemode fiber*



722 SERIES

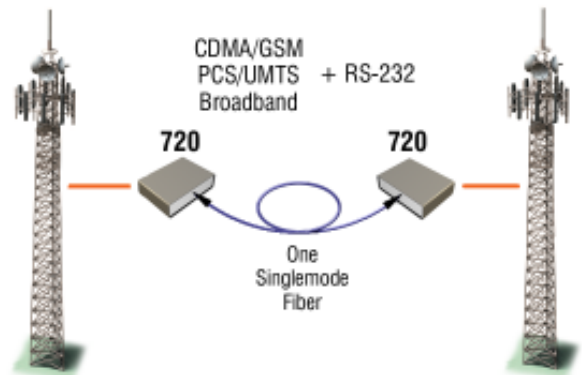
PCS/UMTS Optical Transmission System

*Bi-directionally transmits PCS/UMTS
(1700 MHz to 2200 MHz) RF signal and RS-232 over
singlemode fiber*

723 SERIES

Broadband Optical Transmission System

*Bi-directionally transmits Broadband
(800 MHz to 2200 MHz) RF signal and RS-232 over
singlemode fiber*



- One fiber for bi-directional RF+data transmission
- DFB laser with isolator
- Extended operating temperature (-25° C to +75° C)

*BCI welcomes the opportunity to quote on custom, OEM/private brand and high volume products.
Contact us to discuss your requirements.*

(800) 214-0222

Broadata Communications, Inc.
2545 W. 237th Street, Suite K
Torrance, CA 90505
Ph (310) 530-1416 Fax (310) 530-5958
Also visit our website <http://www.broadatacom.com>
Email: Broadata@Broadatacom.com