



CONCIERGE™

Multimedia Fiberstation

Model HFP-1000

“A Technological Breakthrough for Hotel, Convention Center, and Enterprise Multimedia Distribution”



Floor Box Configuration



Rack Mount Configuration

Broaddata's Model HFP-1000 Concierge™ Multimedia Fiberstation provides 12 different audio, video and data connectivity solutions within a 6" x 13" space. The Concierge™ units are designed for both new construction and upgrading of hotel, hospital, university, convention center, and enterprise multimedia/IT distribution centers. The HFP-1000 units are a "Plug 'n Play" solution for maximum connectivity within board rooms, meeting rooms, convention centers, or anywhere that mixtures of audio, video, and data connectivity are required. The specification of the Concierge™ system eliminates the entire copper based conduit infrastructure, except the one conduit required to house the 1/2" diameter, 24-strand, fiber optic cable. Also, the need for intermediate audio visual (AV) control rooms are eliminated due to the transmission distance capabilities of fiber. An even greater benefit is derived from the elimination of all ground loops. In addition, these fiberstation units mount into standard, construction grade, floor and wall boxes.

Applications

- Video/Audio/Data Transmission
- Media Retrieval and Distribution
- Distance Learning
- Multimedia Conferencing
- Multimedia LAN Extension
- Video/Audio/Data Surveillance
- Traffic Monitoring and Control

Features

- Large Transmission Distance Coverage
- Compact and Lightweight
- Easy to Install and Maintain
- Low Cost and High Performance
- Singlemode or Multimode Fiber
- Card Cage Packaging

Available Connectivity

- 2 ea. XLR Male (2 return)
- 2 ea. XLR Female (2 send) Line/Mic/Phantom Mic Selectable
- NTSC/PAL Composite Video (1 send, 1 return)
- RGB + HV (1 send, 1 return)
- 1 ea. RS-232/RS-422 (switch selectable)
- 1 ea. RS-485 (for Crestron control)
- 2 pr. RCA Stereo Audio (1 send, 1 return)
- 1 ea. 10/100 Ethernet
- 1 ea. T-1/E-1
- 2 ea. Dark Fiber Port (2 send, 2 return)
Available for HDTV, Gigabit, Ethernet, SDI, AES/EBU, etc.



CONCIERGE™ Multimedia Fiber Modules

Fiber Optic Video Links

The video module provides bi-directional transmission of single NTSC/PAL video over one singlemode fiber pair.

Bandwidth	7MHz
Video Level	1 Vp-p @ 75 Ohms
Differential Phase	2 Degrees
Differential Gain	2%
SNR (weighted)	65 dB
Electrical Connector	BNC
Fiber Type	Singlemode
Wavelength	1310nm
Power Budget (Typical)	20 dB



Fiber Optic Audio Links

The audio module provides bi-directional transmission of a 4-channel baseband XLR/RCA audio over one singlemode fiber pair.

Input/Output Impedance	Low-z 600/600 Ohms (XLR) High-z 10K/300 Ohms (RCA)
Max. Line Level	+10 dBm (XLR) and +10 dBu (RCA)
Operation Mode	Line, Mic, Mic/Phantom (Selectable)
Frequency Response	20Hz to 20KHz (at line level)
THD+N	> 70 dB @ 1KHz (at +10 dBm line level)
Electrical Connector	XLR and RCA
Fiber Type	Singlemode

Wavelength	1310nm
Power Budget (Typical)	20 dB



Fiber Optic Serial Data Links

The serial data module provides bi-directional transmission of a single-channel async serial data (RS-232/RS-422) over one singlemode fiber pair.

Interface	DCE
Configuration	Switch Selectable RS-232/RS-422
Data Rate	Up to 115 kbps
Bit Error Rate	<10 ⁻⁹
Electrical Connector	DB-9
Fiber Type	Singlemode
Wavelength	1310nm
Power Budget (Typical)	20 dB





Fiber Optic 10/100 Ethernet Links

The 10/100 Ethernet module provides transmission of a single-channel 10/100 Ethernet over one singlemode fiber pair.

Operation	Auto-sensing 10/100
Electrical Connector	RJ-45
Fiber Type	Singlemode
Wavelength	1310nm
Power Budget (Typical)	20 dB



Fiber Optic T1/E1 Links

The T1/E1 module provides transmission of single-channel T1/E1 over one singlemode fiber pair.

Data Rate	1544 Mbps (T1) or 2.048 Mbps (E1) (Factory Set)
Line Code	Support AMI, B8ZS, or HDB3 (Selectable)
Electrical Connector	RJ-45
Fiber Type	Singlemode
Wavelength	1310nm
Power Budget (Typical)	20 dB



Fiber Optic RGB/S Links

The RGB module provides bi-directional transmission of RGB/sync video over three singlemode fiber pairs.

Bandwidth	Up to 150 MHz
Video Level	1 Vp-p @ 75 Ohms
Electrical Connector	BNC
Fiber Type	Singlemode
Wavelength	1310nm
Power Budget (Typical)	10 dB



CONCIERGE™ Multimedia Fiber Modules

Fiber Optic RS-485 Serial Data Link for Crestron Control

The RS-485 module provides transmission of a single Crestron compatible RS-485 over one singlemode fiber pair.

Data Rate	38.4 kbps
Bit Error Rate	$<10^{-9}$
Electrical Connector	4-Pin Female Mini Phoenix Connector
Fiber Type	Singlemode
Wavelength	1310nm
Power Budget (Typical)	20 dB



Physical Operating Specifications

Fiber Connector	MT-24 (24-fiber ribbon connector)
Fiber Type	Singlemode Fiber
Power Requirement	24VDC, 8Amp (max.)
Dimension (Floor/Wall Mountable)	5.24"H x 13.3"W x 4.00"D (Note 1)
Dimension (Rack Mountable)	5.24"H x 19.00"W x 7.00"D
Operating Temperature Range	0 to 50 degrees C
Storage Temperature Range	-20 to 70 degrees C
Humidity	5 to 95%, non-condensing
Protection (Note 2)	Over Temperature, Door Shut, Short Circuit

(Note 1) This dimension is only for the main body of the Concierge™ module and does not include the dimension of the floor or wall mounting brackets.

(Note 2) The Concierge™ design includes an automated power shut-down mechanism when the ambient temperature exceeds 70 degrees C, the mouse door of the floor box is shut closed, or a short circuit (e.g. water flooding) occurs. The power is automatically recovered when the temperature drops below 60 degrees C, and when the mouse door is reopened. However, the power must be reset manually if a short circuit occurs.



Subject to continued product enhancement, we reserve the right to change the above specifications and description without notice.