

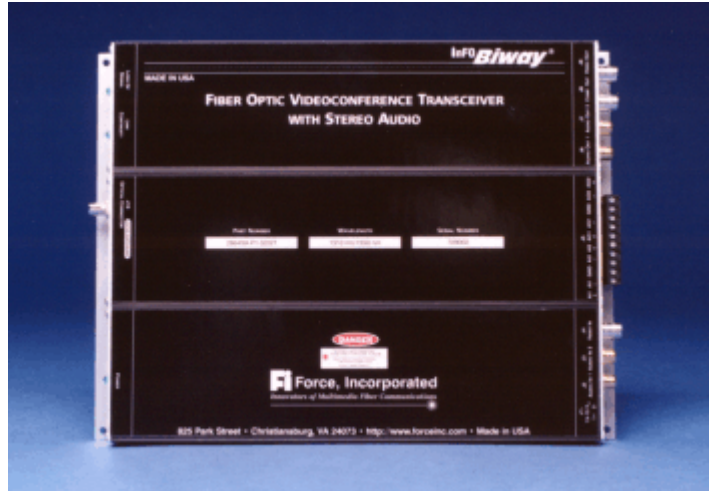


V/A/A Videoconference Transceiver Model 2864

The Force, Incorporated Model 2864 inFOBiway® Fiber Optic Videoconference Transceiver offers high-quality, two-way, full-motion video, and stereo audio (V/A/A) signal transmission and is ideal for videoconference applications in metropolitan area network and campus environments. The transceiver operates over single-mode optical fiber with single-fiber and dual-fiber options. Model 2864 can also be used with multimode fiber in the two-fiber link.

The 2864 accepts direct baseband V/A/A inputs and provides baseband V/A/A outputs, ensuring compatibility with all standard cameras, monitors, and audio sources. Self-test features include transmitter, receiver, and "closed-loop" indicator LED's for verification of

continuity in both directions. In addition to direct baseband outputs for central office or headend monitoring of customer premise V/A/A signals, the 2864 provides composite inputs and outputs. Composite I/O at the switch side of the link allows use of a single port to route video, audio, and data signals through a standard video routing switch.



When two 2864 transceivers are used, a cost-effective point-to-point link can be established. When multiple 2864 transceivers are teamed with a video routing switch, a cost-effective switched videoconference network can be implemented controlling delivery of high-quality V/A/A signals to and from a Telco central office, CATV headend, or centralized CODEC "gateway" location to numerous distant customer premises at distances of up to 25 miles on one single-mode fiber.

Features

- Stand-alone, and 1RU Rack-mount Configurations
- Two-Way Full-Motion Video/Stereo Audio Transmission Over a Single Optical Fiber
- Direct Baseband Video and Stereo Audio Inputs and Outputs
- Balanced or Unbalanced Stereo Audio (User-selectable)
- Single-mode and Multimode Fiber Versions Available
- 0-20 dB Optical Loss Range
- Status Indicator LED's for Verification of Link Continuity
- Link Performance Certified with VM700A
- Tested and Certified by AT&T Bell Laboratories for Operation Over Lucent Technologies SYSTIMAX® SCS Premise Wiring Systems in Conjunction with Model 380 Adapters for UTP Cable

Applications

- Low-cost, 2-way Distribution/Contribution of A/V Signals to Multiple Remote Sites From A Central CODEC "Gateway" Location
- Metropolitan Area Network (MAN) Videoconferencing
- Campus Setting Videoconferencing
- Tele-classroom
- Electronic Magistrate/Judicial Arraignment Systems
- CATV Institutional Networks (I-Net's)

Specifications: @ 25°C

Available through **Multicom, Inc.**

All Models	Min.	Typ.	Max.	Units
Required Fiber Bandwidth	100			MHz
Optical Sensitivity (Rx)		-30		dBm
Optical Saturation (Rx)	+2			dBm
Optical Loss Range	0		20	dB
FM Carrier Frequency	56	60	66	MHz
Video Bandwidth (+1/-3 dB)		4.5		MHz
Video Low Frequency Response		10		Hz
Video I/O Impedance		75		Ohms
Video SNR (Rcvr Input=-24 dBm)		62		dB
Differential Gain Error		2.5	5.0	%
Differential Phase Error		2.4	4	°
Nominal Video I/O Sync	0.9	1.0	1.1	Vsync-to-white
Nominal Output Levels (audio and video)	Input Level ± 20			%
Audio Bandwidth (+1/-3 dB)		20		kHz
Audio Low Frequency Response		50		Hz
Audio Input Impedance (Single-ended)	540	600	660	Ohms
Audio Input Impedance (Single-ended)	8	10	12.5	kOhms
Audio Input Impedance (Differential)		600		Ohms
Audio Output Capability	600			Ohms
Nominal Audio I/O		2.8	6.0	V _{P-P}
Audio Distortion		1.5	3.0	%
Audio Modulation Deviation		± 80		kHz
Audio SNR	59	64		dB
Audio Channel 1 Carrier Frequency		6.0		MHz
Audio Channel 2 Carrier Frequency		6.8		MHz
Composite I/O Impedance		75		Ohms
Composite Bandwidth		12		MHz
Composite Low Frequency Response		10		Hz
1310 nm Tx/1550 nm Rx Models				
Transmitter Operating Wavelength	1280	1310	1340	nm
Spectral Width		2	6	nm
Optical Output Power (Tx)	-7	-6	-5	dBm

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Receiver Operating Wavelength		1550		nm
1310 nm High Power Tx/1550 nm Rx Models				
Transmitter Operating Wavelength	1280	1310	1340	nm
Spectral Width		2	6	nm
Optical Output Power (Tx)	-4	-3	-2	dBm
Receiver Operating Wavelength		1550		nm
1550 nm Tx/1310 nm Rx Models				
Transmitter Operating Wavelength	1520	1550	1580	nm
Spectral Width		2	4	nm
Optical Output Power (Tx)	-7	-6	-5	dBm
Receiver Operating Wavelength		1310		nm
Model 2864XA and 2864XC Transceiver				
Power Supply Voltage	+13		+15	V _{DC}
Power Supply Current		550		mA
Environmental and Physical Characteristics				
Operating Temperature Range	0		+50	°C
Humidity	0		90	%
Dimensions: Stand-alone and 6RU Transceivers	11.61 x 8.85 x 1.12			in.
	294.81 x 224.79 x 28.45			mm
Dimensions: 1RU Transceiver	19.00 x 8.85 x 1.72			in.
	482.50 x 224.79 x 43.69			mm

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