



Model CL5144

Digital

V/A/A to DS3 Codec

- Provides signal distribution for switched metropolitan area networks (MAN).
- Converts one or two NTSC video channels to one DS3 compatible bidirectional stream or one DS3 channel into one or two NTSC video channels.
- Carries full-duplex dual or single NTSC video and associated stereo audio channels on a single DS3 transmission line at 44.736 Mb/s.
- 2RU Rack-mount chassis configurations with universal 120-220 Volts AC or -48 Volts DC power supply options.
- Operates as a drop-in stand-alone DS3 system or interfaces with other Comlux[®] equipment to provide a full system solution.



Model CL5144 V/A/A to DS3 Codec

The Force, Incorporated **Comlux[®] DVS5000** Model CL5144 V/A/A to DS3 Codec offers a state-of-the-art solution for converting one or two NTSC video signals with associated audio into a single DS3 transmission signal or vice versa. The device uses wavelet technology to compress the NTSC signals before transmission. Inbound DS3 signals are demultiplexed and decompressed to create the original NTSC video/stereo audio signals. Front panel indicator LEDs allow the user to quickly assess the system's operational status.

Available through **Multicom, Inc.**

Ph: 407-331-7779 Toll Free: 800-423-2594 Fax: 407-339-0204 www.multicominc.com multicom@multicominc.com

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Video Characteristics

	Min	Typ	Max	Units
Video Channels	1		2	
Input Level		1.0	1.1	V nom.
Input Termination		75		Ohms
Return Loss		30		dB
Frequency Response	30 Hz – 4.5 MHz ± 0.5 dB			
Differential Gain		2.5		%
Differential Phase		2.0		°
Signal-to-Noise Ratio	56		58	dB
Compression Algorithm		Wavelet		

Audio Characteristics

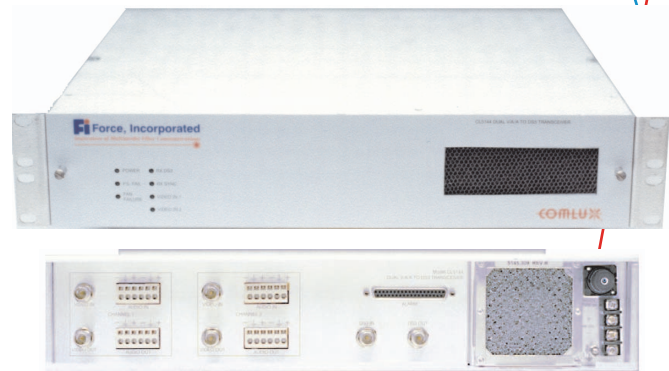
	Min	Typ	Max	Units
Audio Channels	2		4	
Digitizing Resolution	16-bit Linear Coding			
Input Impedance (Balanced)		600		Ohms
Sampling Rate		43.69		kHz
Average Program Level		+4		dBm
Peak Program Level			+14	dBm
Frequency Response	20 Hz – 15 kHz ± 0.5 dB			
Total Harmonic Distortion	< 0.1% 20 Hz – 15 kHz			
Signal-to-Noise Ratio		80		dB
System Channel Separation		70		dB
Insertion Loss		± 0.4		dBm
Data Channel Phase Match	± 10° @ 15 kHz (worst)			

DS3 Characteristics

	Min	Typ	Max	Units
DS3 Data Rate		44.736		Mb/s
Line Code		B3ZS		
Line Impedance		75		Ohms
Frame Format Compatibility	Standard DS3 Framing with C-bit Parity			
Line Build Out	Selectable DSX-3 or High Level (0-450 ft.)			

Electrical and Physical Characteristics

	Min	Typ	Max	Units
AC Supply Voltage	120		220	Volts AC
Fuse Type (AC Model)	2.5A Slo Blo			Amps
DC Supply Voltage		-48		Volts DC
Fuse Type (DC Model)	3 A, 300 Volts DC			
Rated Current		3		Amps
Operating Temp. Range	+5		+40	°C
Storage Temp. Range	-40		+75	°C
Humidity	10		90	%
Weight		20.25		lbs.
Dimensions		9.2		kg
	17.0 x 15.0 x 3.44			in.
	432 x 381 x 87			mm



Model CL5144 Front and Rear Views

Ordering Information*

CL5144XA-NN-2	Codec, Dual V/A/A to DS3, 2RU 19" Rack-mount Chassis, -48 Volts DC
CL5144XB-NN-2	Codec, Dual V/A/A to DS3, 2RU Chassis w/ Portable Handle, -48 Volts DC
CL5144XC-NN-2	Codec, Single V/A/A to DS3, 2RU 19" Rack-mount Chassis, -48 Volts DC
CL5144XA-NN-3	Codec, Dual V/A/A to DS3, 2RU 19" Rack-mount Chassis, 120-220 Volts AC
CL5144XB-NN-3	Codec, Dual V/A/A to DS3, 2RU Chassis w/ Portable Handle, 120-220 Volts AC
CL5144XC-NN-3	Codec, Single V/A/A to DS3, 2RU 19" Rack-mount Chassis, 120-220 Volts AC

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