DIGITAL MATRIX INTERCOM SYSTEMS



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DESCRIPTION

The AES-3 Digital Audio Interface Card expands the connectivity to the ADAM[®] Intercom by supporting AES-3 over coaxial cable. It supports 8 audio channels in and out through 8 AES-3 connections. The AES-3 card provides connectivity to any other third party AES-3 audio device. It supports all standard hot swappable and configurable features within the ADAM Intercom family. This card supports incoming sample rates from 16 kHz to 108kHz with 24 bit audio. Outputs are compatible with all AES-3 recommended procedures. Along with the newly introduced RVON-8 VOIP card, the RTS ADAM intercom systems now natively support analog, AES-3 digital and VOIP signal formats.

FEATURES

- The AES-3/EBI cards are hot swappable to allow live insertion to the AIO slot in the ADAM frame.
- The TDM and Control Bus interfaces are compatible with the current and next generation ADAM matrix TDM and control buses.
- Hardware and firmware compatible with current and next generation ADAM matrix systems.
- Provides downloadable firmware features through AZedit.

PLEASE CONTACT US

Telex Communications, Inc. 12000 Portland Avenue South Burnsville, MN 55337 U.S.A. Tel: (800) 392-3497 Fax: (800) 323-0498

ORDER INFORMATION

MODEL NO.	DESCRIPTION	CATALOG NO.
AES Card	AES Digital Audio Interface Card	9002-7745-002

AES-3 DIGITAL AUDIO INTERFAGE GARD

	SPECIFICATIONS		
	Performance Specifications		
	Dynamic Range:	120 dB	
	Input Sample Rate		
1	(serial input port - Fsi):	15 to 132 kHz	
	Output Sample Rate (Fso):	8 to 44.1 kHz	
\sim	Output Data:	16 bits capable of	
		24 bits	
	Output to Input	00 / 0	
	Sample Ratio Rate: Total Harmonic	.33 to 3	
	Distortion + Noise:	105dB	
	Peak idle channel	10500	
	noise component:	-140 dBFS	
audio	Resolution:	16-24 bits	
/ides			
	Digital Filter Characteristics		
	Passband:		
rcom	Upsampling:	.4535Fsi Hz	
z with	Downsampling:	.4595Fso Hz	
; -	Passband Ripple:	±0.007dB	
AM	Stopband (downsampling):	.5465Fso Fsi/2 Hz	
signal	Stopband Attenuation:	110 dB	
orginai	Group Delay:	175ms	
	Group Delay Variation	0.0	
	vs. Frequency:	0.0µs	
	Interchannel Phase Deviation:	0.0°	
o the	High-Level Input Voltage,	0.0	
	except RXP. RXN:	2.0 - (VD+)+0.3V	
	Low-Level Input Voltage,	2.0 (VD1)10.0V	
	except RXP, RXN:	-0.3 - 0.8V	
rrent	Low-Level Output Voltage		
	(lo=-20uA), except TXP		
	and TXN:	0.4V	
	High-Level Output Voltage		
ation	(lo=-20uA), except		
	TXP and TXN:	(VD+) -1V	
	Input Leakage Current:	±10 - ±15μA	
	Differential Input Voltage,		
	RXP to RXN:	200 mV	
	Output High Voltage,		
	TXP and TXN: Output Low Voltage,	(VD+)07 (VD+) -0.4V	
	TXP, TXN:	0.4 - 0.7 V	
		0.4 0.7 V	
	Switching Characteristics		
	RST pin Low Pulse Width: 200ms		
	OMCK:		
	Frequency for OMCK=512Fso: 4.096-55.3 MHz		
	Low and High Width for OMCK = 512Fso: 8.2 ns		
	Frequency for OMCK = 384Fso:3.072 to 41.5 MHz		
	Low and High Width for OMCK = 384Fso: 12.3 ns		
	Frequency for OMCK = 256 Fso: 2.048 - 27.7MHz		
		OMCK = 256 Fso: 16.4ns	
	PLL Clock Recovery Sample Rate Range:		

PLL Clock Recovery Sample Rate Range: 8.0 - 108.0 kHz RMCK output jitter: 200 ps RMS RMCK output duty cycle: 40-60% (typ. 50%) RMCK input frequency: 2.048 - 27.7 MHz RMCK Input Low and High Width: 16.4 ns AES-3 Transmitter Output Jitter: 1 ns

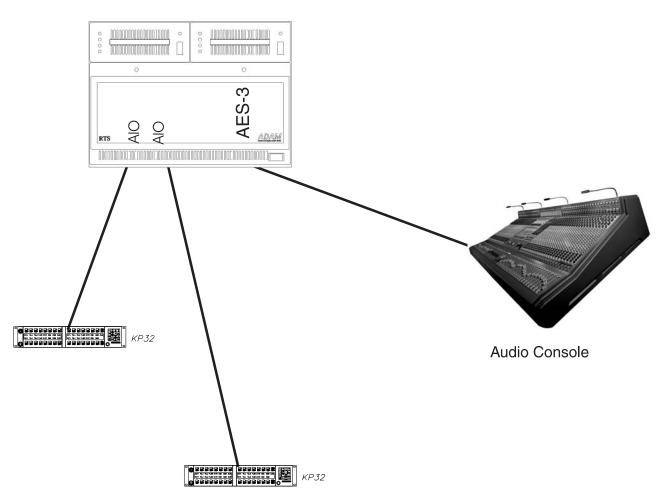


AES-3 DIGITAL AUDIO INTERFAGE GARD

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SYSTEM DIAGRAM

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AES-3 Digital Audio Interface Card System Diagram

WARRANTY

Products are warranted by Telex Communications, Inc. to be free from defects in materials and workmanship for a period of three years from the date of sale.

The sole obligation of Telex during the warranty period is to provide, without charge, parts and labor necessary to remedy covered defects appearing in products returned prepaid to Telex. This warranty does not cover any defect, malfunction or failure caused beyond the control of Telex, including unreasonable or negligent operation, abuse, accident, failure to follow instructions in the manual, defective or improper associated equipment, attempts at modification and repair not authorized by Telex, and shipping damage.

To obtain warranty service, follow the procedures entitled "Procedure for Returns" and "Shipping to Manufacturer for Repair or Adjustment".

This warranty is the sole and exclusive express warranty given with respect to RTS products. It is the responsibility of the user to determine before purchase that this product is suitable for the user's intended purpose.

ANY AND ALL IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY ARE LIMITED TO THE DURATION OF THIS EXPRESS LIMITED WARRANTY.

NEITHER TELEX NOR THE DEALER WHO SELLS TELEX PRODUCTS IS LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND.