

Features

- Provides up to 64 channels of voice compression to reduce long haul bandwidth requirements, compressing up to 2 E1s or T1s of voice traffic.
- Supports transition signaling as defined by ANSI T1.302-1989.
- Supports fax and modem operation.

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- Compliant to G.761 for alarm indication and fault handling.
- Software selectable 24, 32 or 40 Kbps compression rates.
- Compatible with standard IMACS digital or analog voice cards.

The 887170 ADPCM card is a plug-in resource card for the IMACS system. The card has 32 pair of voice compression engines which accept input directly from voice cards or voice traffic on WAN links. The ADPCM card requires a matching card at the other end to decompress the voice channels to normal 64K operation. The ADPCM card is compatible only with the IMACS cross-connect CPU, 880370.

Each pair of compression engines utilize one 64 Kbps DS0 for two compressed channels. Each engine can compress 64 Kbps voice traffic to 24 Kbps, 32 Kbps or 40 Kbps, depending on the compression quality required.

The rate of any DS0 is 64 Kbps, so the sum of the compression rates for each engine pair must equal 64 Kbps. A 32 Kbps circuit can only be paired with a 32 Kbps circuit. A 40 Kbps circuit can only be paired with a 24 Kbps circuit and vice-versa.

The compression engines work in pairs. Each member of a pair must have the same WAN and time slot. Additionally, both members of the compression engine pair must be active before either port will operate.

Each IMACS unit can have up to three ADPCM cards installed (two active ADPCM cards and one redundant card).

ADPCM Server Card

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Card	Input voice channels	The input can originate from any 2-wire or 4-wire voice card or from a DS0 on a WAN (El/T1 or HDSL) interface. Mu-law & A-law 64Kbps PCM compatible on a per channel basis.	
	Input subrate data	SRU data traffic at 19 2Kbps or less can be carried on a 24Kbps sub-channel	
	Modem data support	Transcoder rate	Modem data
	modelli data support	24Kbps	none
		27Kbps 32Kbps	up to 4 8Kbps
		32K0ps	V 22 to 0 6Kbps
		40Kbps	
			V.32 bis to 14.4Kbps
	FAX support	Transcoder rate	FAX
		24Kbps	none
		32Kbps	Group II
		40Kbps	Group Ill
	Voice quality	ality As measured by mean opinion score (MOS) analysis, a subjective evaluation with a range of 0 (poor quality) to 5 (good quality). Toll quality voice is	
		accorded a MOS of 4.	
		Transcoder rate	MOS
		24Kbps	3.6-3.8
		32Kbps	4.0-4.3
		40Kbps	4 0-4 3
	Echo cancellation	None provided: typically no	t required
	Signaling	 Transmitted in-band utilizing CAS transitional signaling, as per ANSI T1.302 - 1986 for 32Kbps and modified for use with 24Kbps and 40Kbps. Note: robbed bit signaling alarm transmission, as specified in ANSI T1.302a - 1989 is not supported. 2 (2 active 1 redwndent) 	
	Signamig		
	Manimum and arout		
	Maximum card count	5 (2 acuve, 1 redundant)	
	Transcoder operation	Compliant to G. /61 Alarm Indication and Fault Handling.	
Standards Compliance	ITU G.721, ITU G.723, ITU G726-12/90, ANSI T1.302-1989, ANSI T1.302a-1992, ANSI T1.303-1989		
Product Numbers	PRM-887170 - ADPCM server - stainless steel faceplate, CE marked		
Physical	Card height	8 inches (20cm)	
Specification	Card width	15/18 inches (2.35 cm)	
	Card depth	71/2 inches (18.75cm)	
	Power consumption	2.88 Watts	
	BTU/br	0.83	
	Operating temperature	0 to 50 C 32 to 122 F	
	Storage temperature	-20 to 80 C $-4 to 176 F$	
	Junidity	-201000C, -4101/0F	
		U to 95% fluminity, non-condensing	
IMACS Platform	IMACS chassis	891030 IMACS 600, 891830 MACS 800, or 891930 IMACS 900	
	Control CPU card	880460 bus-connect or 880370 cross-connect CPU	
	System Host Code	3.6 & 6.0 or later	