## Product Name: Digital Asterisk Card



RT-420D/220D/120D E1/T1 Digital telephone card for Asterisk:

## **Description:**

Efficient: Optimization of DMA transmission and hardware switching. Clock: Support to use a unified clock on each machine. Support the master-slave clock. So several different carriers can be connected simultaneously. Interfaces: Mix T1/E1 connecting has been supported. Line codin : HDB3 / AMI / B8ZS Frame format : CRC4 / non-CRC4 / ESF / D4T1 / E1 HDLC Processing: Independent of the hardware HDLC transceiver

Driver optimization: Specifically optimization for high volume data transmission in drivers.

## Model List

PCI Digital Telephony Cards			
Product Name	4-Ports Digital	2-Ports Digital	Single port Digital
	Telephony card	Telephony card	Telephony card
Model	RT-420D	RT-220D	RT-120D
Interface	E1/T1/J1	E1/T1/J1	E1/T1/J1
Channels	1-4	1-2	1
Echo Cancellor	Support	Support	Support
BUS	PCI 2.2 3.3/5V	PCI 2.2 3.5/5V	PCI 2.2 3.5/5V

This series provides full-duplex telephone card data with 1 6.384M transfer rate or 120channels voice communications. Each machine can support multiple cards, particularly suitable for the development of Asterisk-based applications.

The card provides a wealth of line encoding (AMI / BSZS / HDB3), hardware frame processing(CRC4 / non-CRC4 / ESF / D4T1 / E1). Every card provides two independent HDLC transceiver and support SS7 FISU transmit-receive. The card also provides two independent Jitter Attenuator.

The card reserved slot for echo cancellation. Carrier-grade EC modules have been provided. The EC module also can provide optimizing of voice quality.

These cards supporing rich media processing with high performance. All the cards in one host can share the same clock source?

The card provides 32bits transmission in both DMA slave and master mode. The data in every DMA transmission can be adjusted according to different motherboard to reach the maximum.

This series cards including 3 modelss.RT420D/RT220D/RT120D,corresponding to 4 ?2 ?1 E1 / T1 / J1 interfaces.RT420D is 9.5 CM long, 10 CM high and compliance with PCI 2.2 standard interface card.EC module can be inserted to the slot on the card to provide hardware echo cancellation.

The optimization driver has been provided and has passed our rigorous testing..

## **Technical Specification:**

	Digital Telephony Card Technical Specifications		
Size	9.5*10CM,Half-length standard industry pci card. Weight 200g		
Configure	RT420D ?4-ports E1/T1/J1		
	RT220D ?2-ports E1/T1/J1		
	RT120D ?Single port E1/T1/J1		
PCI	Auto adaptive to 5v and 3.3v PCI 2.2 bus.		
	Auto configuration and compatiable with popular mianboards.		
	32bits,132M bytes/sec DMA transmission and supporting both slave		
	and master mode.DMA transmission can be optimized according to		
	mianboard.		
PHY	RJ45 120/75ohm DSX-1/CSU-1 Line-buildouts		
Framer	Two Standalone framer to process receive and transmit frame.		
	Supporting Frame formats:CRC4/non-CRC4/ESF/D4T1/E1		
	Automatic produce DS1 idle code.		
	Supporting T1.403-1998.Producing and checking RAI-CI/AIS-CI/RAI.		
	RCL, RLOS, RRA?RAIS warning interrupt		
Standards	ANSI: T1.403-1995, T1.231?993, T1.408		
	AT&T: TR54016, TR62411		
	ITU: G.703, G.704, G.706, G.736, G.775, G.823, G.932, I.431, O.151,		
	Q.161		
	ITU-T: Recommendation I.432?3/93 B-ISDN User-Network Interface		
	Specification: ETSI: ETS 300 011, ETS 300 166, ETS 300 233, CTR12,		
	CTR4		
	Japanese: JTG.703, JTI.431, JJ-20.11 (CMI Coding Only)		
Environment			
Leds	One tri-colors led for every interface.Total leds: 4		