

Packet Switch IAX-210 ATM Network Interface

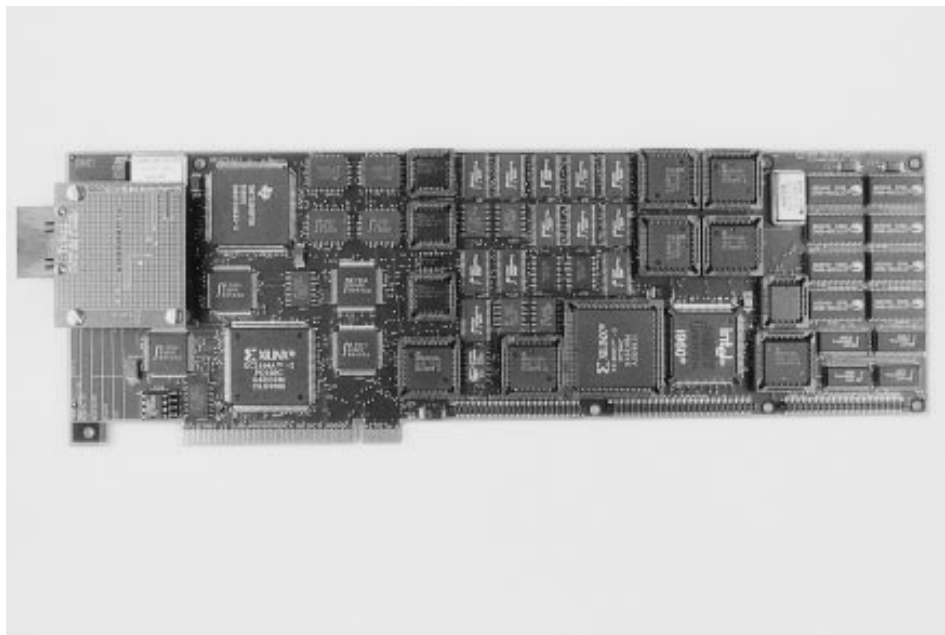
- Provides ATM at 155.52 Mbit/Sec Speed (STS-3c and STM-1 Capable), Full Duplex
- Revolutionary Proprietary ATM SAR For Efficient ATM Traffic Processing
- DMA Transfers Between Host and IAX-210 at Up to 132 Mbytes/Sec
- Expandable Buffer Memory, Sizable From 512 KB and Up
- Firmware Completely Upgradeable With Network Downloadable Software
- Standard Configuration Supports 1024 Virtual Channels, Expandable to 65,536 Channels
- Fully Compliant to ITU-T and ATM Specifications
- Supports Modular, Field Reconfigurable Standard Physical Media Interfaces
- Supports RFC 1577 LAN Emulation
- Supports Terminal and Facility Loopback
- Full Size 5V PCI Bus Initiator
- Fast RISC Processor Manages Traffic Between Host and IAX-210
- Diagnostic Software Available
- Applications Connector For PST Network Service Extensions
- Supports Entire VCI/VPI Address Space
- Configurable as a UNI or NNI Device

GENERAL OVERVIEW

The Packet Switch IAX-210 high performance 155 Mbit ATM network interface card combines ATM connectivity with the very high speed databus transport capabilities of the 32 bit PCI bus. The IAX-210 interface card may be used to provide wideband data capabilities for multimedia work groups, ultrafast system servers, LAN backbone feeds, and very high performance point to point data transport applications such as distributed CAD/CAM, real time video and digital video production, video conferencing, virtual reality, and medical imaging.

CUSTOM DESIGNED SAR

Packet Switch products utilize a custom,



high speed, proprietary ATM SAR engine. This SAR engine is optimized hardware and offers the user lightning fast responses far exceeding software based SAR solutions. The Packet Switch SAR offers exceptional performance for advanced client/server duty where there is high network demand.

UNI OR NNI CONFIGURABLE

Packet Switch Network Interface products are both UNI and NNI compatible. Configuration is easily done via software. PST products will enable convergence of telephone and data interfaces in a direct, economical path.

CONNECTION MANAGEMENT HANDLED BY RISC PROCESSOR

Cell Scheduling, traffic management, and buffer allocation tasks are performed by an on board i960[®] processor. All management functions are performed outside of the cell stream, in parallel with the Packet Switch custom SAR. This design paradigm assures true 155 Mbit ATM high performance through all protocol and application levels.

CONTACT:

Packet Switch Technologies, Inc.
 576 Boston Post Road
 Marlborough, MA 01752
 Phone: (508) 480-9466
 FAX: (508) 480-9662
 Net: 102171.1742@compuserve.com

Packet Switch
 Technologies

ARCHITECTURE

Bus Type	32 Bit PCI Bus
Data Transfer	132 Mbytes/sec, Burst
Bus Access	PCI Indicator
Buffer RAM	Base: 512 KB, 1 MB, 2 MB & up

ATM SPECIFICATIONS

Signaling	ATM Forum UNI 3.0/3.1, SONET OC-3c or SDH STM-1
SVC Encapsulation	Forum LAN emulation, RFC1577
PVC Encapsulation	Forum LAN emulation, RFC 1483
Adaptation Layers	AAL 5, AAL 3/4 and AAL 0/1
Layer Services	UBR, VBR, CBR
Media	850nm and 1300nm Multimode Fiber, Single Mode UTP Copper Category 5
Network Management	SNMP ILMI

MECHANICAL

Form Factor	Standard, 5V, 32-bit PCI slot, Full Size
Length	12.34"
Width	4.2"
Weight	1.5 lb.
Indicators	Operational/Linkactive LED

POWER REQUIREMENTS

Consumption	5V @ 5A maximum
-------------	-----------------

OPERATING ENVIRONMENT

Temperature	0° to 40° Celsius
Relative Humidity	10%-90%, non-condensing

SOFTWARE SUPPORT

PCI bus based computers and workstations
 Apple Macintosh PPC
 Microsoft Windows
 IBM LAN Server
 Sockets TCP/IP
 Microsoft NT
 IBM OS/2
 SCO Unix

ORDERING INFORMATION

Order Number:	Description:
IAX-210B-1A	155 Mbit PCI ATM interface, w/1300nm MMF short range

STANDARD OPTIONS

Physical Connection adapters for:	
850nm Multi Mode Fiber	PA1-0850-1M
1300nm Multi Mode Fiber 500m	PA1-1300-1M
2Km	PA1-1300-2M
1300nm Single Mode Fiber	PA1-1300-1S
Copper UTP	PA1-100F-UT
Additional ATM NIC Memory	MM2-4KCL-1A

NETWORK SERVICE EXTENSIONS

Video Package	EVX-100V-1A
Network Security Package	ENX-100S-1A