Standard Features for SmartWORKS™ IPX

- Universal PCI & PCI Express

- Two 10/100 BT ports for non-intrusive monitoring

- Target Recording

- One 10/100 BaseT active NIC

- Forwards VoIP RTP sessions to one or more network devices

- Processes all VoIP call and terminal control signaling

- SmartWORKS™ API (Common to all SmartWORKS™ boards)

- Field upgradeable

- Low to high density - call capacity up to 480 stations

- RTP timeout & RTCP Qos

- Available for Windows 2000, XP, Windows 2003 server, windows2008 server, windows7, Windows8 Server

Since 1991, Ai-Logix has designed boards used in interactive and passive telephony applications. With global support for all types of telephone and radio systems - analog, digital, and enterprise PBXs, Ai-Logix products have set a new world standard in telephony communications. A single API, combined with event driven reporting simplifies application development by providing one standard for all types of networks.

SmartWORKS™ IPX is an essential component of your call recording solution that provides packet filtering and media forwarding for IP-PBXs. It has one on-board connection for forwarding up to 480 RTP streams and two on-board connections for monitoring the IP traffic at the wire speed. When combined with the Ai-Logix HPXMedia, the IPX provides complete event triggering, call state reporting and media processing for many of the industry leading IP-PBXs.

Key Features and Benefits

Multiple PBX Support

The same hardware supports multiple protocols including Skinny and Avaya and is designed to accommodate future protocols such as SIP and H.323 with just a software upgrade.

Multiple Protocol Support

The same hardware supports SIP, H.323 and Skinny (SCCP) etc. and is designed to accommodate future protocols with just a software upgrade

Flexible Event Triggering

Applications can start and stop recording based on Ai-Logix call control or take advantage of PBX/protocol specific messages.

RTP Timeout & RTCP QoS

IPX detect the RTP timeout, when exceed the time set in the SmartControl, the IPX regard this call is already ended and report the "EVT_MEDIA_SESSION_STOPPED" to user application. This feature can avoid the recording problem due to lost packets.

Tapping Environment

The IPX is designed for IP call recording applications. It's active interfaces can be connected directly to an available mirror port or, when used in conjunction with a TX100/TX1000, can be connected passively anywhere within the IP-PBX configuration. Up to 480 media sessions per board can be monitored at a time.
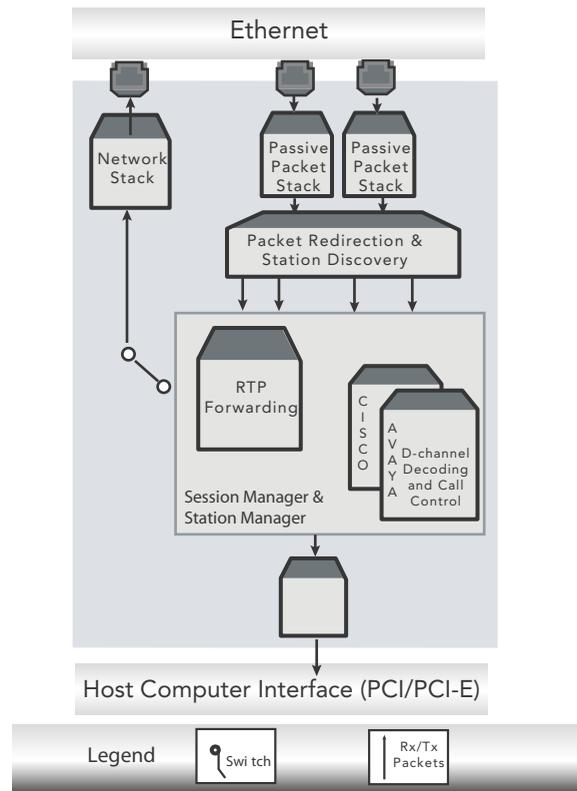
Session Management

The IPX software includes a Session Manager for tracking media sessions on the IP network. Each media session is treated as a unique call with a unique Session ID. Your application can easily manage media forwarding with the Session IDs provided by the IPX.
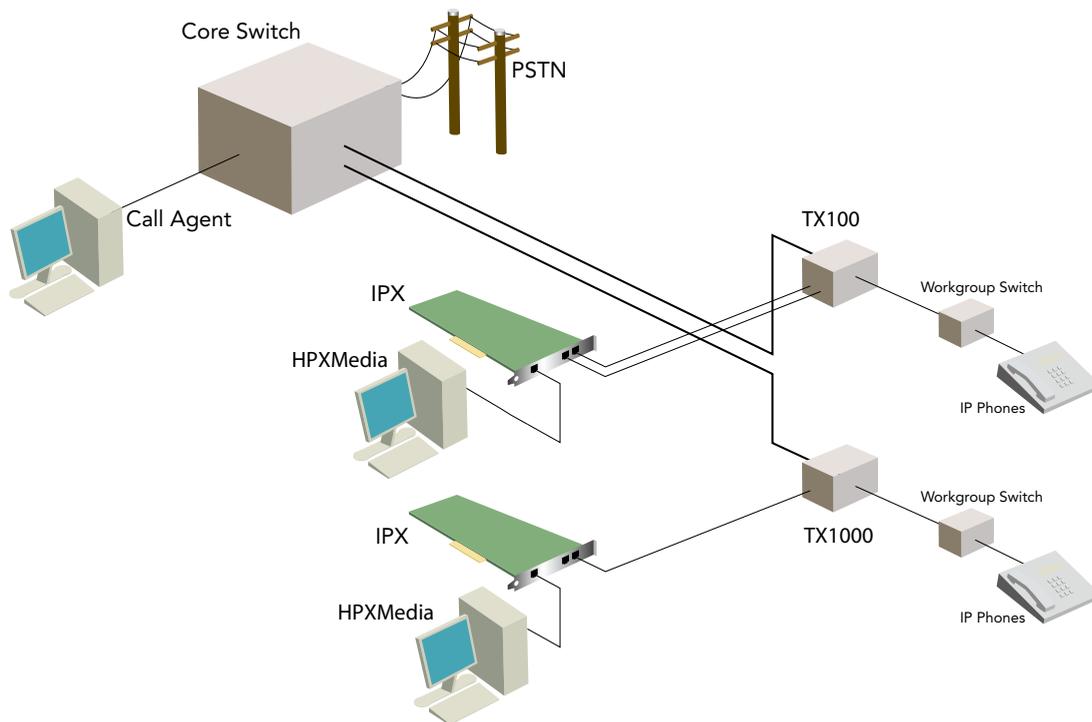
Station Management

Automatically locates all VoIP endpoints on the network and assigns each a unique Station ID. IPX software dynamically identifies phones as they are added to the network and reports when they are removed.

Ai-Logix

An AudioCodes Company

IPX Logical Card Model

Ethernet

Network Stack

Passive Packet Stack

Passive Packet Stack

Packet Redirection & Station Discovery

RTP Forwarding

CISCO

AVAYA

D-channel Decoding and Call Control

Session Manager & Station Manager

Host Computer Interface (PCI/PCI-E)

Legend | Switch | Rx/Tx Packets

IPX Application Model

Core Switch

PSTN

Call Agent

IPX

HPXMedia

TX100

Workgroup Switch

IP Phones

IPX

HPXMedia

TX1000

Workgroup Switch

IP Phones

Technical Specs ➡

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Shanghai, China

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HARDWARE SYSTEM REQUIREMENTS

Dual Core 1.6 GHz ATX PCI motherboard or passive back-plane with 3.3V ATX power supplier PCI2.2/PCI3.0/PCI-X/PCI-E bus · Bus speed: 33 or 66 MHz · Bus mode: 32 bits

OPERATING SYSTEMS

Windows2000 Professional/Server

WindowsXP Professional (SP3)

Windows2003 server (32-bit/64-bit)

Windows2008 server (32-bit/64-bit)

Widnows7 (32-bit/64-bit)

Windows8 server

TECHNICAL SPECIFICATIONS

Max. board per system: 8

LEDs:. . . . . .3 LEDs - board state

1 LED - host to board communication

2 LEDs per Ethernet port

ENVIRONMENTAL CONDITIONS

Operating Temperature: . . . . .0C -- +50C

Storage Temperature:. . . . .-20C -- +85C

Humidity: . . . . .8% -- 80%

Storage humidity:. . . . . .8% -- 80%

PHYSICAL CHARACTERISTICS

Form factor: . . . . .Full size PCI card & half size PCI-express card

Host interface:. . . . . .PICMG 2.3

Bus speed: . . . . 33 or   66MHz

Bus Mode:. . . . . 32 bits

Ethernet Interface: . . . . .Complies with 802.3 10/100Base-T

Connector:. 3xRJ45

VOIP PROTOCOLS

Cisco Call Manager (Skinny)

Avaya Office Manager (H.323) , IP Office

Ericsson (H.323)

Nortel (Unistem/SIP)

SIP (Station Side/ Trunk Side)

H.323 (Station Side/ Trunk Side)

Alcatel OmniPCX 4400

Siemens Hi-Path 4000

Intertel CS-5200

NEC NEAX 2400

ShoreTel (VOX only)

Alcatel OXE

Panasonic TDE/NCP

Astra NexSpan XS

LG iPECS

NEC SV8X00

Others: Contact Ai-Logix Sales.

POWER REQUIRMENTS

3.3 V:. 2A

+5V:. 15mA

SAFETY AND CERTIFICATIONS

Emissions: . . . . .EN55022, FCC part 15 class A

Immunity:. EN55024

Safety: EN60950

MODELS AVAILABLE

SmartWORKS™ IPX-C

SmartWORKS™ IPX-EX

SmartWORKS™ HPXMedia

TX100/TX1000