



ATP Series Tapping Analog Lines

The well established ATP series supports all analog interfaces, and can easily be configured to connect with diverse analog networks worldwide. With passive and trunking interface capacities, it features programmable voltage thresholds, loop polarity reversal and multiple event triggers. The ATP series provides a range of options, including half length or full length cards, PCI/PCIx/USB/PCIe selectable interfaces and huge versatility. Used by the leading call recording solution providers since 1990s, the ATP series has been optimized to fit the toughest demands and hyper competitive environments with its matchless cost advantage and outstanding robustness.

Specifically, with on-board advanced DSP algorithm and DMA processing capability, the ATP series helps minimize the consumption of host CPU resource and outperforms all comparable products in the toughest application scenarios, including better performance and higher scalability up to 256-channels simultaneous call logging. As a modular structure, the ATP series can be customized to provide 24, 16, 14, 12, 10, 8, 6, 4 and 2 ports (per slot) ideal for small offices up to large call centers. Many developers worldwide have depended on the ATP series to create robust and high capacity systems in central office and Telco environments.

The ATP series leverages multiple dedicated DSP chipsets (not host processor resource), to process a range of high-ratio compressions, including license-free G.729 and GSM. This robust architecture releases host processors from overloading and assures efficient data storage and high reliability for data transmission in the most difficult situations.

Key Features & Benefits

Detect Polarity Reversal

Adapt to environments where Tip and Ring are reversed. Minimum 10k Ohm AC Impedance/2M Ohm DC Impedance With no conversation interruption, high impedance receivers record both sides of a call.

Support Direct Windows WAV Format

Data is stored in WINDOWS WAV format directly, and can be played out by the sound card with no format conversion.

On-Board Audio Jack and Microphone Connector

Monitor all channels in real-time or playback audio files by on-board audio jack resources.

• 2~24Port High-Impedance Analog Line Tap

Synway designs all kinds of analog boards (up to 256 ports) ideal for any analog environment, widely used small-scaled systems, call recording systems, call center monitoring, and microphone recording, etc.

In-house Unified API (SHCTI)

A single protocol-independent API, which minimizes the processing overhead on the system CPU by executing protocols only on DSP and unifies application development across all Synway's product series, including USB series products.

Technical Specifications

•	PRODUCT MODELS			
SHT-2B(4B)/USB				
SHT	-8B/PCI			
SHT	-16B-CT/PCI(/MP3)			
ATP	-24A/PCI(+)			
ATP	-24A/PCIe(+)			

2/4 ports, USB 2 to 8 ports configurable, PCI 2 to 16 ports configurable, PCI 8/16/24 ports, PCI, (G729A) 8/16/24 ports, PCIe, (G729A)

• INPUT/OUTPUT INTERFACE

Headset jack: One φ3.5 stereo jack SHT-2B/USB, SHT-4B/USB Microphone jack: One φ3.5 stereo jack Telephone line jack: Four 4-pin RJ11 connectors Handset jack: One 4-pin RJ11 connector USB jack: One USB1.1 standard interface Telephone line jack: SHT-8B/PCI: Four 4-pin RJ11 jacks SHT-16B-CT/PCI(/MP3): Four 8-pin RJ45 jacks ATP-24A: A 50-pin RJ21 connector

MAXIMUM SYSTEM CAPACITY

Up to 10 boards concurrently per system; up to 24 channels per board Up to 8 USB recording boxes concurrently per system; up to 4 channels per box (SHT-2B/USB, SHT-4B/USB only)

AUDIO SPECIFICATIONS

Signal-to-noise ratio \geq 38dB Echo suppression: \geq 40dB

16Bit PCM	128kbps	8Bit PCM	64kbps
A-Law	64kbps	µ-Law	64kbps
VOX GSM	32bps 13.6kbps	ADPCM Mp3	32kbps
G.729A	8kbps	F -	0/100005

G.729A 8kbps Output power: ≥50mW Distortion: ≤2% Frequency response: 300-3400Hz(±3dB)

Tap Environment

With 2, 4, 6, 8, 10, 12, 14, 16 or 24 port board/USB box, the ATP adapts to low to high density applications. The Synway's in-house unified API supports a total of 256 ports per system. In any analog environment, ATP can work well as tapping point between office and PBX, office and phones, PBX and phones and any other analog audio signals.

Worldwide Analog Support

ATP supports passive call recording on groundstart and loopstart analog networks. Features such as programmable voltage thresholds, voltage detection, ring detection and polarity reversal are managed through Synway's in-house unified API, so the products can easily adapt or be quickly customized to variations in analog systems worldwide.

Security for User Software

The built-in authorized code identification circuit is included to provide an exclusive authorization code for protecting users' software security.

POWER REQUIREMENTS
 +5V DC: 900mA
 -12V DC: 120mA
 +12V DC: 450mA
 Maximum Power Consumption: ≤12W

IMPEDANCE

Input impedance: $\geq 1M \Omega/500V DC$; $\geq 10k \Omega/1000V AC$ Insulation resistance for PC isolation from telephone line: $\geq 2M \Omega/500V$ DC

• ENVIRONMENTAL CONDITIONS Operating temperature: 0°C-55°C Storage temperature: -20°C-85°C Humidity: 8%-90% non-condensing Storage humidity: 8%-90% non-condensing

- SAMPLING RATE: 8KHz
- SAFETY AND CERTIFICATIONS
 Lightning Resistance: Level 4
 Certifications: FCC & CE & AS/NZS CISPR



Special Enhancements

Field-proven Reliability

Synway has won high recognition for field-proven performance of 2 million ports in 80,000 systems installation across the world. Located in China's IT centre and manufacturing hub of the world, Synway delivers products with high MTBF and low defect rate by optimizing technologies and implementing ISO 9001 and 100% quality control system.

User-friendly API

Unifying applications for all product lines, Synway's in-house API features user-friendliness and rich functionality. With our remote or onsite Multi-Level Supports(MLS), our R&D engineer are always available to customize API, demos or sample programming to eliminate any uncertainty in your product development, and help port your application to the Synway's API in reasonable time frame.



Application Architecture

For more..... Http://ww.synway.net



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