

## Passive Call Recording Technologies (For TDM & IP networks)



# DTP Series

## E1/T1/J1 Tapping for Call Center

With multiple signaling capabilities and high compatibility with international standards, the DTP series has been widely used as a reliable and cost effective tool by call recording application developers to passively tap E1/T1/J1 networks in a variety of complex telephony environments. Used by the leading call recording solution providers since the 1990s, the DTP series has been optimized to fit the toughest demands and most competitive environments because of its unrivalled cost advantages and world-class robustness.

As a proud milestone in call recording hardware design, the DTP series is E1/T1/J1 interface software configurable, supports 4, 2 or 1 dual span taps per slot, and can flexibly fulfill various requirements. Specifically, by providing on-board advanced DSP algorithm and DMA processing capability, the DTP series helps minimize host CPU resources and outperforms all competitor products in the toughest application scenarios. This includes better performance and higher scalability up to 1200(40E1)-channels simultaneous call logging. For these reasons many leading developers worldwide depend on the DTP series to create robust high capacity systems in complex central office as well as high-demand Telco environments.

The DTP series also leverages dedicated DSP chipsets to process a range of high-ratio compressions, such as license-free G.729 and GSM. This robust architecture further releases host processor resource from overloading and assures efficient data storage and high robustness for data transmission in the most difficult situations. The DTP series provides call logging application developers with a complete range of options, portfolios containing half/full length, E1/T1/J1 configurable, CAS/ISDN/SS7 protocols and more versatility. Conveniently DTP series can be installed into most server categories and computer types. All of its new-generation portfolios are PCI-express or PCI(X) form factor, half-length card.

## Key Features & Benefits

- Single, Dual and Quadruple Hi-Impedance E1/T1/J1 Digital Tap  
Tap digital lines with no additional hardware for passive logging applications.

- Multiple Call State Monitoring (CAS/ISDN/SS7)  
Support the CAS, SS7(TUP, ISUP) and ISDN signaling protocols and report the call states and calls parameters via comprehensible API events.

- True Dual Span Capabilities  
Customizable RJ-45/BNC/RJ-11 interfaces can record inbound/outbound sides of a conversation, and support inbound and outbound call recording.

- Support Direct Windows WAV Format  
Data is stored in WINDOWS WAV format directly, and can be played out by sound card with no format conversion.

- High Density Passive Tap Capabilities  
Operating between a central office and PBXs, the DTP's high impedance receivers record both sides of a call without interrupting service. Each board can process up to 120 ports, with a maximum of 960 ports per host.

- Voice-Processing Capability

A large selection of voice CODECs for developers, including G729, GSM, G711 A-law, μ-law, Linear PCM, IMA-ADPCM, MP3, and support VOX format.

- Tap Environment

With single or dual E1/T1/J1 trunk boards, DTP adapts to high density applications. The Synway's in-house unified API supports a total of 960 ports per system. In any digital environment, DTP can work well as tapping point between office and PBX, office and phones, PBX and phones and any other digital audio signals.

- Worldwide Interface Digital Support

DTP supports passive call recording on E1/T1/J1 networks features such as programmable voltage thresholds, voltage detection, and ring detection are managed through Synway's in-house unified API, so the products can easily adapt or be quickly customized to variations in most digital 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.

## Technical Specifications

- PRODUCT MODELS

SHD-30B-CT/PCI/FJ	1E1/T1/J1, PCI, GSM/G729A
SHD-60B-CT/PCI/FJ	2E1/T1/J1, PCI, GSM/G729A
DTP-30C/PCIe (+)	1E1/T1/J1, PCIe, (GSM/G729A/MP3)
DTP-60C/PCIe(+)	2E1/T1/J1, PCIe, (GSM/G729A/MP3)
DTP-120C/PCIe(+)	4E1/T1/J1, PCIe, (GSM/G729A/MP3)
DTP-30C/PCI(+)	1E1/T1/J1, PCI, (GSM/G729A/MP3)
DTP-60C/PCI(+)	2E1/T1/J1, PCI, (GSM/G729A/MP3)
DTP-120C/PCI(+)	4E1/T1/J1, PCI, (GSM/G729A/MP3)

- INPUT/OUTPUT INTERFACE

E1 Physical Ports:

Compliant with G703, including 75Ω unbalanced interface and 120Ω balanced interface.

T1 Physical Ports:

DSX-1 and CSU line build-outs available for different extents of signal losses, including 100Ω and 110Ω balanced interfaces.

- AUDIO SPECIFICATIONS

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

Frequency Response: 300-3400Hz (±3dB)

Automatic Gain Control (AGC): -20dB-0dB

- SIGNALING

SS1(CAS): compliant with international GF002-9002 (DL and MFC)

SS7: compliant with Q771-Q795

DSS1: compliant with Q.933

- MAXIMUM SYSTEM CAPACITY

Up to 8 boards concurrently per system; each board can monitor up to 1, 2 or 4E1/T1/J1 trunks.

- POWER REQUIREMENTS

+3.3V DC: 1.5A

Maximum Power Consumption: ≤5W

- INPUT INTERFACE AND IMPEDANCE

Interface: RJ48C

AC Impedance: 1KΩ

- 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

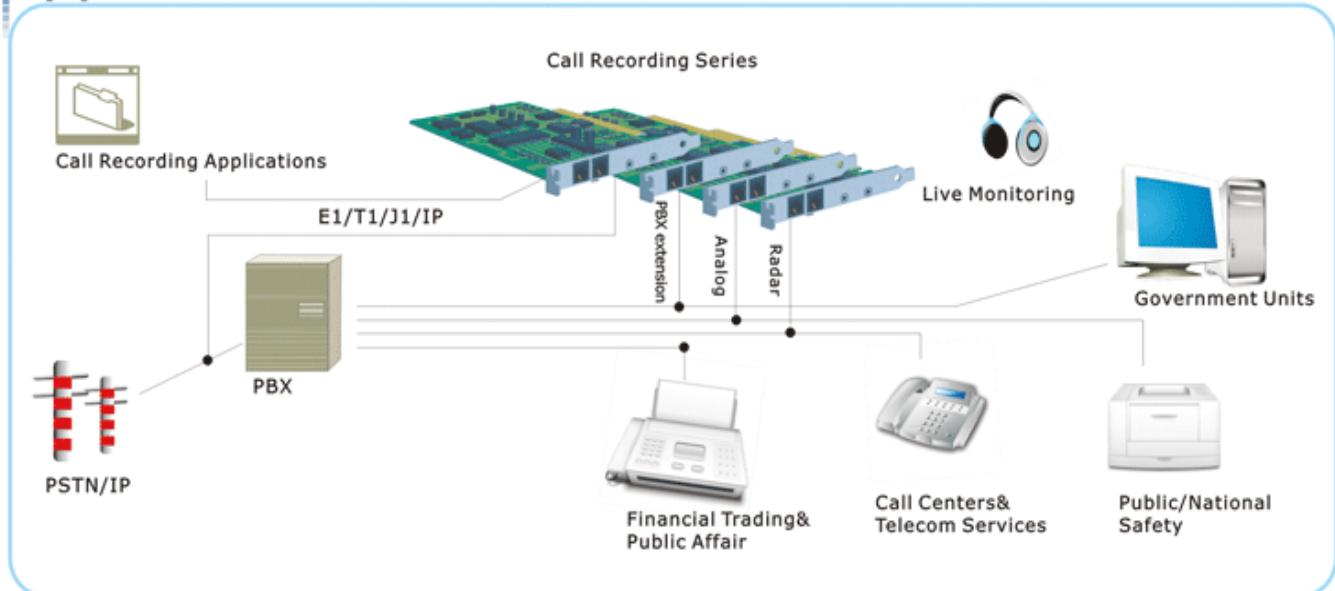
## Field-proven Reliability

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.....**  
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