



Passive Call Recording Technologies (For TDM & IP networks)



DST Series

Passively tapping proprietary PBXs extensions

The DST range of single-slot solutions for logging and monitoring behind PBXs, fits into a variety of PBXs extension tapping environments, including connection between the PBX and the proprietary handsets providing passive monitoring of the voice conversation and D-channel (call control). A variety of telephony events such as call taken and key pressed are automatically decoded and sent to recording applications for a powerful set of functions and high integration with PBXs. As a modular structure, the DST series can be customized to provide 24, 16, 12, 8, 4 ports (per slot) ideal small offices up to large call centers. For that reason many developers worldwide depend on DTP series to create robust and high capacity systems in central office and Telco environments.

Solidly built on Synway's robust FPGA technology, the DST series help logging application providers deliver the most competitive recording solutions with its high performance specifications and the lowest price points when compared with other competitor products. DST series also provide a powerful range of voice processing capabilities via rich dedicated DSP resources to process high-ratio audio compression formats, including license-free G.729 and GSM. This robust architecture further releases host processors from overloading and assures efficient data storage and high reliability for data transmission in the most difficult situations.

The DST series can protect system performance and robustness with its capability to remotely log media stream. Doing this helps solution providers simplify remote debugging or other diagnostic activities and assure high availability of a running system. In addition, Synway's engineers can remotely monitor applications for users to help optimize systems architecture. An intelligent tool, the DST series is able to adjust to a variety of complex environments by automatically and manually configuring variable parameters, and is widely in service in large-scale call centers.

Key Features & Benefits

● Multiple PBX Support

A single board interfaces with a majority of PBXs on single hardware platform. With much field expertise, Synway can configure for your PBXs. Structured with motherboard and functional module architectures, a single DST board can be configured freely from 4 to 24 ports based upon special application needs.

● Flexible Configuration

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● Firmware Upgraded

No need for hardware change and special upgrading tools, a simple firmware upgrade allows DST to fit into different PBX environments.

● On-Board Audio Jack

Monitors up to 24 ports in real-time or playback audio files with on-board audio jack resources.

● Wide Spectrum of Trigger Events

DST initiates and terminates recordings based on voice activity, raw D-channel, DTMF, programmable tone analysers, and Call Progress Monitoring (CPM) events.

Technical Specifications

● PRODUCT MODELS

DST-24B/PCI	8/16/24ports, PCI, full length
DST-24B/PCI+	8/16/24ports, PCI, full length, GSM/G729A/MP3
DST-24B/PCI(2.0)	8/16/24ports, PCI, half length
DST-24B/PCI+(2.0)	8/16/24ports, PCI, half length, GSM/G729A/MP3
DST-24B/PCIe (2.0)	8/16/24ports, PCIe, half length
DST-24B/PCIe+(2.0)	8/16/24ports, PCIe, half length, GSM/G729A/MP3

● INPUT/OUTPUT INTERFACE

Headset jack: One ϕ 3.5 stereo jack

Telephone line jack:

SHR-16DA-CT/PCI: Four 8-pin RJ45 jacks

SHR-24DA-CT/PCI: One 50-pin RJ21 connector

DST-24B: One 50-pin RJ21 connector

● AUDIO SPECIFICATIONS

16Bit PCM	128kbps	8Bit PCM	64kbps
A-Law	64kbps	μ -Law	64kbps
VOX	32bps	ADPCM	32kbps
G.729A	8kbps (SHR-24DA-CT/PCI, DST-24B only)		
GSM	13.6kps (DST-24B only)		
Mp3 8kps,	16kps (DST-24B only)		
Output power:	\geq 50mW		
Distortion:	\leq 2%		
Frequency Response:	300-3400Hz (\pm 3dB)		
Signal-to-noise ratio:	\geq 80dB		

● MAXIMUM SYSTEM CAPACITY

Up to 10 boards concurrently per system; up to 24channels per board.

● Voice Processing Capability

A large selection of voice CODECS for developers, including G.729A, G.711 A-law, μ -law, Linear PCM, IMA-ADPCM, MP3, and support VOX format.

● Support Direct Windows WAV Format

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

● Security for User Software

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

● Extensive PBX Support

Compatible with international deployments, the DST taps 2-wire, 4-wire, BRI and full duplex PBX's. The list of PBXs the DST supports is constantly growing. Please feel free to contact Synway for custom configuration.

● Tap Failure Detection

Support detection for malfunction of hardware platforms and digital telephone as well as digital line interruption.

● POWER REQUIREMENTS

Maximum power consumption: \leq 12W

● Impedance

Input impedance: \geq 600 Ω AC

Insulation resistance for PC isolation from telephone line: \geq 20M Ω /500V DC

● ENVIRONMENTAL CONDITIONS

Operating temperature: 0 $^{\circ}$ C—55 $^{\circ}$ C

Storage temperature: -20 $^{\circ}$ C—85 $^{\circ}$ C

Humidity: 8%—90% non-condensing

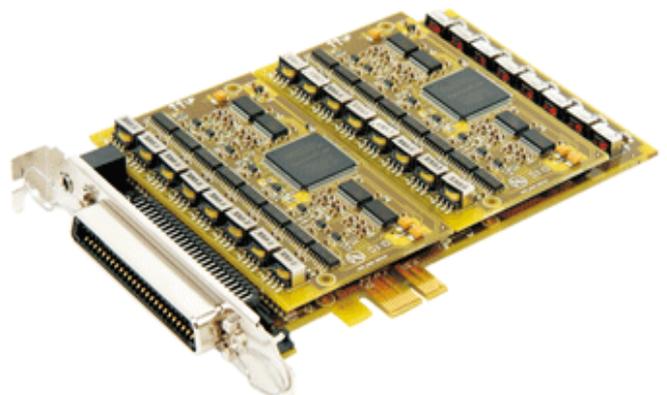
Storage humidity: 8%—90% non-condensing

● SAMPLING RATE: 8KHz

● SAFETY AND CERTIFICATIONS

Lightning Resistance: Level 4

Certifications: FCC & CE & AS/NZS CISPR



Special Enhancements

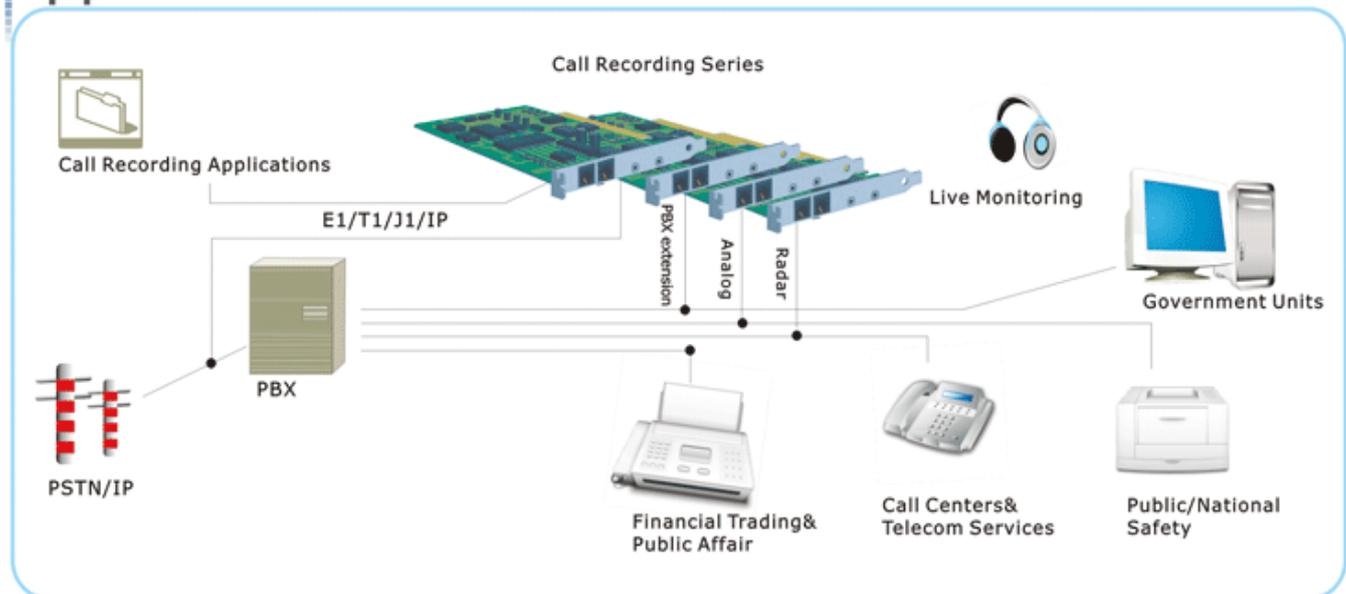
Field-proven Reliability

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](http://www.synway.net)



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