Product Catalog

Synway®

Multimedia Processing & Signaling
(VoIP & PSTN convergence communication)

About us

Synway specializes in providing superior Media Processing & Signaling Technologies, Telephony Hardware and Integrated Multimedia Switch in use for convergence (voice/data/video) communications. Since 1995, over 1000 software developers and system integrators have integrated Synway's offerings to deliver a broad range of TDM and VoIP-based applications, including unified communications, call center, mobile VAS, media gateway, fax, conferencing, call recording, Asterisk-based open source applications for operators and enterprises worldwide.

Having continued to optimize and expand its product portfolios to cater to various needs, Synway has consolidated its position as a leading vendor in international market for its widest range of portfolios: IP&TDM board & new-generation integrated multimedia switch platform for SP developers, Asterisk-based hardware & appliances, and the most diverse hardware options for passive call recording (logging) applications in IP and TDM network.

With 200 teammates, Synway makes all efforts to deliver quality support and service and help clients offer a variety of customizable, high-performance and cost effective solutions.

Introduction

Synway's multimedia processing and signaling family, consisted of Synway's SHN(IP), SHD(digital), SHT(analog) and SHF(fax), is specifically designed for both IP and PSTN networks. Built on Synway's technologies, SHN, SHD, SHT and SHF are mutually independent as well as closely interconnected architectures and can maximize investment and sustainability for service providers and application developers in changeable environments. Combining the four products together, developers can deliver cost effective, flexible, feature-rich, high-compatibility solutions in PSTN and IP networks.

Content

SYNWAY DELIVERS:

Customizability

In the hypercompetitive environment, service providers and operators must continually lower subscription cost for standard service, such as voicemail, and simultaneously offer subscribers more value-added functionalities, such as faxmail, CRBT, etc. Synway, with world class technical team, can provide telco solution developers with enhanced and customized architectures to differentiate.

With an expandable suite of value-added features, Synway's integrated media and signaling product enables Telco solution providers to introduce more cost effective, innovative services to meet carriers and subscribers' today or future network needs.

Interoperability

Interoperated with an array of TDM/IP switchers and networks, Synway's product portfolios, including analog, digital and VoIP media processing and access platforms, share the same application interface and media processing capabilities, and can be mixed together or used alone for highly scalable and available applications and value-added services in PSTN and IP networks. All of Synway component-based applications or services are protocol-independent (SIP or SS7) and can be migrated among all of Synway's portfolios.

Synway's media processing and signaling architectures incorporate a full suite of protocols, including SIP, SS7, ISDN, CAS, and Telco solution providers can depend on Synway's portfolios to easily deliver gateway functionality and a host of next generation features. Sustainability and interoperability of Synway's products protect initial investment of service providers and application developers.

SHD Series

Digital Media Processing & Signaling

Synway's broad range of digital products incorporate an array of signaling protocols and rich media processing capabilities, and provide service providers and application developers with matchless cost, high performance ALL-IN-ONE hardware platform easily used for all of CTI applications. Its enhanced built-in resources include conferencing, fax, compression protocols, echo cancellation and call control, which are powered by innovative technologies and expertise accumulated in serving leading service providers, application developers, telecom equipment providers and OEMs worldwide.

Designed specifically to offer high capacity, highly available solutions, Synway's proven high-density hardware combines telco-grade reliability and high performance, and has been deployed in a new range of applications, including prepaid card processing, CRBT, conferencing, and network announcements. Single high-capacity digital media processing and signaling platform can connect to 16/8/4/2/1 E1/T1 software-selectable trunks and support up to 96 SS7 signaling links. In terms of traffic profile, application developers can deploy application, with signaling and media processing capability for 1920 concurrent subscribers in single system. Coupled with years of technical support expertise, this hardware platform helps developers maximize value.

Key Features & Benefits

- ALL-IN-ONE architecture of integrated signaling and multimedia processing

Integrate media processing and signaling built on in-house DSP architectures, and support all of multimedia applications, such as IVR, call center, fax and conferencing, and other highly available solution architectures.

- Rich media processing: conferencing, compression, fax, echo cancellation, call control, etc.

Support for enhanced multimedia processing resources, including conferencing, IVR, fax, compression, echo canceller, call control, help developers develop flexible feature-rich applications.

- Selectable signaling protocols: CAS, ISDN PRI, SS7(ISUP/TUP/MTP/TCAP), SCCP(MAP)

Offer robust signaling technologies, including SS7 (MTP1-3, ISUP, TCAP, TUP), SCCP(MAP), ISDN PRI and CAS for service providers and application developers to develop and deploy high capability, high performance and highly available enhanced services in PSTN and PLMN networks.

- Configurable SS7 link capacity and inherently high signaling throughput

Built-in SS7 capability is an integrated part of Synway's proven, cost effective PSTN series, and no independent SS7 server need to implement high-capacity 96 SS7 links.

- Universal user-friendly SHCTI API supports for a range of calling features

Unified API architecture minimizes efforts on application development and deployment, and PSTN-based or SIP-based applications can be migrated among all of Synway's hardware platforms.

- Optional form factor: PCI, PCI-X, PCI-express* interface

Support existing or next-generation form factor of network infrastructure, server and chassis, with no need to change application programming interfaces.

- Global approval by service providers, application developers and system integrators

Broadly deployed into large-scale call center application, value-added service, unified messaging solution by world-class application developers and service providers.

- Scalable and upgradeable from 1 to 16 E1/T1 trunks per slot, 64 E1/T1 per system

Cost effective, scalable and upgradeable hardware for a broad range of applications, and specifically designed to fulfill demands in high capacity, highly available and redundant solution architecture.

Technical Specifications

- PRODUCT MODELS

SHD-30C/60C/120D/240D-CT/PCI
SHD-30C/60C-CT/PCI/FAX
SHD-120D/240D-CT/PCI/EC
SHD-120D/240D-CT/PCI/CAS
SHD-120D-CT/PCI/MAP
SHD-30E/60E/120E/240E-CT/PCIe
SHD-30E/60E/120E/240E-CT/PCIe/FAX
SHD-30E/60E/120E/240E-CT/PCIe/EC

- ENVIRONMENTAL CONDITIONS

Operating temperature: 0℃-55℃
Storage temperature: -20℃-85℃
Humidity: 8%-90% non-condensing
Storage humidity: 8%-90% non-condensing

- INPUT/OUTPUT INTERFACE

E1 interface: Compliant with G.703, including 75Ω unbalanced interface and 120Ω balanced interface.
T1 interface: DSX-1 and CSU line build-outs available for different extents of signal losses, including 100Ω and 110Ω balanced interfaces.

- AUDIO SPECIFICATIONS

CODEC: CCITT A/μ-Law 64kbps,
IMA ADPCM 32kbps
Distortion: ≤3%
Frequency response: 300-3400Hz (±3dB)
Signal-to-noise ratio: ≥38dB
Echo suppression: ≥40dB

- MAXIMUM SYSTEM CAPACITY

Up to 8 digital trunk boards concurrently per system;
up to 30/60/120/240 channels per board.

- POWER REQUIREMENTS

Maximum power consumption: ≤8W

- ENHANCED ECHO CANCELLER

SHD-120D-CT/PCI/EC:128ms
SHD-240D-CT/PCI/EC:128ms
SHD-30E/60E-CT/PCIe/EC: 64ms
SHD-30E/60E-CT/PCIe/FAX: 64ms
SHD-120E/240E-CT/PCIe/EC: 64ms
SHD-120E-CT/PCIe/FAX: 64ms

- FAXING

V.17: 14400, 12000, 9600, 7200 bps
V.29: 9600, 7200 bps
V.27: 4800, 2400 bps

- SIGNALING

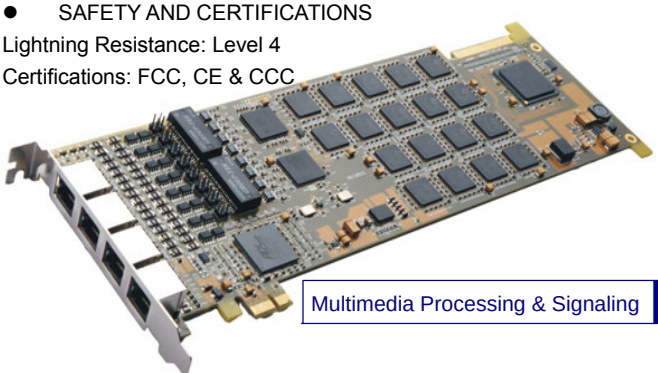
SS1: Compliant with DL and MFC standards stipulated in Gf002-9002; supports D4 and ESF framing
SS7: Compliant with related provisions stated in Q771-Q795
DSS1: Compliant with Q.933

- AUDIO ENCODING & DECODING

16Bit PCM	128kbps	8Bit PCM	64kbps
A-Law	64kbps	μ-Law	64kbps
VOX	32bps	ADPCM	32kbps
GSM	13.6kbps	MP3	8kbps

- SAFETY AND CERTIFICATIONS

Lightning Resistance: Level 4
Certifications: FCC, CE & CCC



SHN Series

VoIP Media Processing & Signaling

With VoIP being an integral part of modern communication technologies, many application developers have been introducing next-generation multimedia processing and signaling technologies to deliver cost effective, flexible, high performance IP-based services or applications. Extending mature PSTN technologies to IP architecture, Synway's SIP-based media processing hardware platform is specifically designed to deliver robust enabling architecture in pure IP environment or hybrid IP and PSTN networks for service providers and application developers.

Like Synway's PSTN architecture, Synway's IP hardware architectures incorporate high capability and high performance media processing resources, including echo cancellation, fax, conferencing, high compression protocols, and call control, which enable service providers and communication application developers to rapidly deliver feature-rich IP-based services, including SIP media server, hosted call center, voice portal, IP messaging and gateway.

For pure IP-based services or applications, Synway's IP platform offers matchless cost efficiency, rich multimedia processing, and SIP. Application developers can develop high-capability, size-optimized-for-value IP system, with NIC-based port densities up to 1920 ports in a single system. In the hybrid IP and PSTN networks, this platform inherits and shares API from Synway's PSTN series products, and simplifies development and deployment as developers can rapidly migrate their existing applications or services interfaced to Synway's PSTN series products to this IP architecture.

Key Features & Benefits

- ALL-IN-ONE architecture of integrated SIP and multimedia processing

Help VoIP-based application developers to integrate all cost effective, scalable, feature-rich IP telephony applications and value-added services in single box in IP networking environments.

- Signaling protocols: SIP/MGCP

Offer robust SIP signaling technologies for service providers and application developers to develop and deploy high capability, high performance and highly available enhanced services in PSTN and PLMN networks.

- Universal user-friendly SHCTI API supports for a range of calling features

Unified API architecture minimizes efforts on application development and deployment, and PSTN-based or SIP-based applications can be migrated among all of Synway's hardware platforms.

- Optional form factor: PCI, PCI-X*, PCI-express* interface

Support existing or next-generation form factor of network infrastructure, server or chassis without altering application programming interfaces.

- Rich media processing: conferencing, compression, fax, echo cancellation, call control, etc.

Support for enhanced multimedia processing resources, including conferencing, IVR, fax, compression, echo canceller, call control, help developers develop feature-rich applications, such as IVR, call center, conferencing, gateway, IP-PBX and other highly available solution architectures.

- Global approval by service providers, application developers and system integrators

Deployed into large-scale call center application, value-added service, unified messaging solution by world-class application developers and service providers.

- Scalable and upgradeable up to 120 ports per slot, maximum 960 ports per system

Cost effective, scalable and upgradeable hardware for a broad range of applications, and specifically designed to fulfill demands in high capacity, highly available and redundant system architecture.

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Technical Specifications

- PRODUCT MODELS

SHN-8B-CT/PCI+
SHN-16B-CT/PCI+
SHN-32B-CT/PCI+
SHN-60B-CT/PCI+
SHN-120B-CT/PCI+

- INTERNET INTERFACE

Speed: 10/100M Compatible
Interface: RJ45

- RECORDING/PLAYING FORMAT

A-Law, μ-Law, ADPCM

- MAXIMUM SYSTEM CAPACITY

Theoretically up to 8 VoIP boards concurrently per system

- AUDIO CODEC

MS-GSM, G.729A, A-LAW, μ-Law

- POWER REQUIREMENTS

Maximum power consumption: ≤13W

- ENVIRONMENTAL CONDITIONS

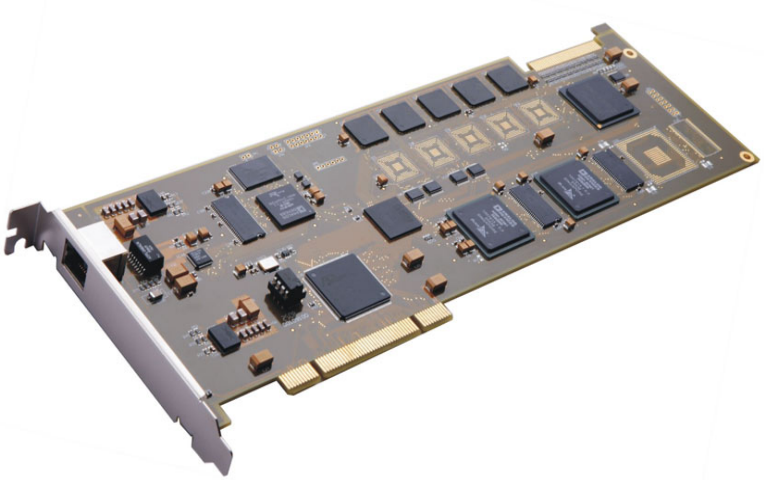
Operating temperature: 0℃-55℃
Storage temperature: -20℃-85℃
Humidity: 8%-90% non-condensing
Storage humidity: 8%-90% non-condensing

- AUDIO ENCODING & DECODING

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

- SAFETY AND CERTIFICATIONS

Lightning Resistance: Level 4
Certifications: FCC, CE & CCC



SHT Series

Analog Media Processing & Signaling

Built on mature voice processing technology in analog interface network, Synway's media processing and analog access hardware adapts hardware-configurable modular architecture for hybrid FXO and FXS telephony applications. A powerful and versatile analog access platform, it leverages on-board DSP capability to perform enhanced multimedia processing and standard telephony functionalities, such as DTMF generation, detection, playback, etc.

Synway's analog media processing architecture loads built-in conferencing, voice processing and optional fax resources, and can be used for IVR, ACD, messaging, call center and other telephony systems. Compliant with PCI, PCI-X, PCI-express, USB interface, single architecture can be hardware-configured to density ranging from 2 to 16 FXO or FXS ports, and maximum density per system extends to 256 ports when 16 units are used together.

In addition to scalability and flexibility, this analog architecture brings matchless cost efficiency for application developers, and can act as an entrance point to develop more sophisticated, high capacity applications or services based on Synway's digital and IP media processing and signaling products due to its easy use and application-migratability.

Key Features & Benefits

- ALL-IN-ONE architecture of integrated multimedia processing

Support for enhanced multimedia processing resources, including conferencing, IVR, fax, compression, echo canceller, call control, help developers develop feature-rich applications.

- Modular architecture for any hybrid FXO/FXS applications

Hardware-configurable to fit at the closeness into exact demand, scalable from 2 to 16 ports per slot, 256 per system.

- Optional fax resources

Support 4, 8, 12-ports Group 3 fax in single board, perfect error correction mode (ECM), high-speed transmission and reception..

- Built-in conferencing capability

Independent conferencing resources in each port, and support for conference monitoring and can configure as interactive conferencing system.

- Codecs protocols

Powerful voice processing capability; support G.711, MP3(8kbps), GSM, ADPCM, and other Codecs for active recoding, support playback WAV format.

- Universal user-friendly SHCTI API supports for a range of calling features

Unified API architecture minimizes efforts on application development and deployment, and PSTN-based or SIP-based applications can be migrated among all of Synway's hardware platforms.

- Real-time monitoring

Conversation between any two parties in conferencing can be directly played out through on-board audio jack.

- Selectable form factor

USB, PCI, PCI-X, PCI-express* interface.

Technical Specifications

- PRODUCT MODELS

SHT-2B/USB
SHT-4B/USB
SHT-8B/PCI
SHT-8C/PCI/EC
SHT-8C/PCI/FAX
SHT-16B-CT/PCI
SHT-16C-CT/PCI/EC
SHT-16C-CT/PCI/FAX

- INPUT/OUTPUT INTERFACE

Headset jack: One φ3.5 stereo jack
Telephone line jack: Four 4-pin RJ11 jacks (SHT-8B/8C)
Telephone line jack: Four 8-pin RJ45 jacks (SHT-16B/16C)
USB jack: One USB1.1 standard interface (SHT-2B/4B)

- AUDIO SPECIFICATIONS

CODEC: CCITT A/μ-Law 64kbps,
IMA ADPCM 32kbps
Distortion: ≤3%
Frequency response: 300-3400Hz (±3dB)
Signal-to-noise ratio: ≥38dB
Echo suppression: ≥40dB

- MAXIMUM SYSTEM CAPACITY

Up to 10 analog voice boards concurrently per system; up to 8/16 channels per board (SHT-8B/8C/16B/16C)
Up to 8 USB voice boxes concurrently per system; up to 4 channels per box (SHT-2B/4B)

- POWER REQUIREMENTS

SHT-8B/8C/16B/16C:
+5V DC: 600mA
-12V DC: 80mA
+12V DC: 300mA
Maximum power consumption: ≤12W (PC power supply only)
SHT-2B/4B:
+5V DC: ≤400mA
Power: ≤2.1W

- Impedance

Input impedance: ≥1MΩ/500V DC;
≥10kΩ/1000V AC
Insulation resistance for PC isolation from telephone line: ≥2MΩ/500V DC
Telephone line impedance:
Compliant with the national standard impedance for three-component network

- ENVIRONMENTAL CONDITIONS

Operating temperature: 0℃-55℃
Storage temperature: -20℃-85℃
Humidity: 8%-90% non-condensing
Storage humidity: 8%-90% non-condensing

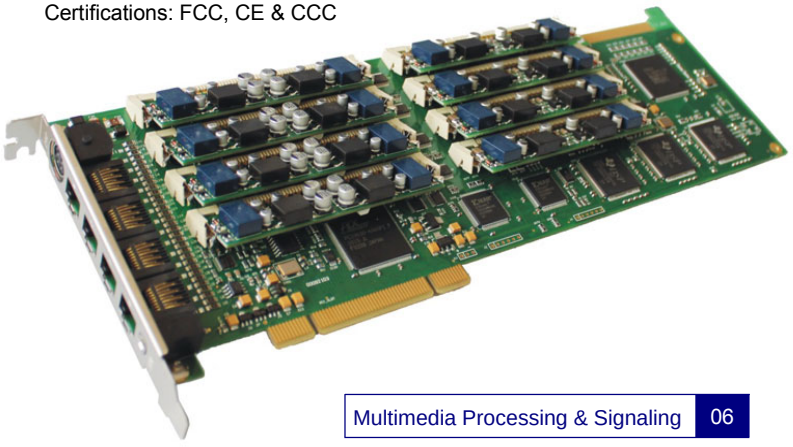
- AUDIO ENCODING & DECODING

16Bit PCM	128kbps	8Bit PCM	64kbps
A-Law	64kbps	μ-Law	64kbps
VOX	32bps	ADPCM	32kbps
GSM	13.6kbps	MP3	8kbps

- SAMPLING RATE: 8KHz

- SAFETY AND CERTIFICATIONS

Lightning Resistance: Level 4
Certifications: FCC, CE & CCC



SHF Series

Analog Fax Board

Combining decades of expertise and a third-party technology, the latest SHF series aims at providing high-speed (33.6kbps) and high-reliability faxing functionality in the complex analog environment. Compared with its rivals, its Error Correction Mode (ECM) is unparalleled, ensuring zero failure rate during 100,000 times of faxing procedures.

The latest SHF series adopts all-in-one architecture to ensure high adaptability in ever changeable business environment. Besides high-performance faxing capability, it could be handily customized for some other CTI applications, including IVR and call center. Each SHF series card supports 2 or 4 ports, and multiple ones could be expanded up to 32 ports in a single system while high-capacity systems are required. With 2U, half-length compact size, its architecture also saves space and fits into most market servers as well as computers.

Key Features & Benefits

- High speed transmission

Support the V.8 modem negotiation protocol, V.34, V.17, V.29, V.27ter and V.21, the transmission and reception rate up to 33.6kbps, or less on the self-adaptive basis.

- PCI 2.2 Bus Support

Includes PCI 2.2 bus with 32/64-bit PCI slot and 3.3V/5V slot voltage; supports PCI-X.

- Module design

The on-board dual-channel modules could be freely customizable in a variety of applications, IVR or Faxing.

- Programmable Tone Detector

Detects single or dual tones at any frequency, conveniently compliant with a variety of PBX and key telephone systems.

- Professional Driver Algorithm

Uses SPECDial - a professional driver algorithm - to perform a complete automatic dialing process through analog lines, accurately identifies called-party status and precisely distinguishes answer machine from a fax machine.

- SuPerForm superior voice quality and echo cancellation

High-adjustability, original and complimentary SuPerForm, can be "automatic adaptability" optimized by site environments for the unmatched voice enhancements(up to 128ms echo tail), accurate DTMF/tone detection.

- Codecs protocols

Powerful voice processing capability; support G.711, MP3(8kbps), GSM, ADPCM, and other Codecs for active recoding, support playback WAV format.

- Internal Power system

The power is supplied by PCI slot, eliminating the need for external power source.

- Supports WAV File

The recorded voice files can be edited and played out by audio tools such as Cooledit.

Technical Specifications

- PRODUCT MODELS

SHF-2D/PCI support 2 voice or fax channels
SHF-4D/PCI support 4 voice or fax channels

- INPUT/OUTPUT INTERFACE

Telephone line jack: 2~4 4-pin RJ11

- AUDIO SPECIFICATIONS

CODEC: CCITT A/μ-Law 64kbps
IMA ADPCM 32kbps
Distortion: ≤3%
Frequency response: 300-3400Hz (±3dB)
Signal-to-noise ratio: ≥38dB
Echo suppression: ≥40dB

- MAXIMUM SYSTEM CAPACITY

Up to 100 channels concurrently per system

- POWER REQUIREMENTS

Only motherboards (with modules fully inserted)
+3.3V DC: 1500mA (power consumption: 4.95W)
+12V DC: 500mA (power consumption: 6W)

- IMPEDANCE

Insulation resistance for PC isolation from telephone line: ≥2MΩ/500V DC.
Telephone line impedance:
Compliant with the national standard impedance for three-component network.

- ENVIRONMENTAL CONDITIONS

Operating temperature: 0℃-55℃
Storage temperature: -20℃-85℃
Humidity: 8%-90% non-condensing
Storage humidity: 8%-90% non-condensing

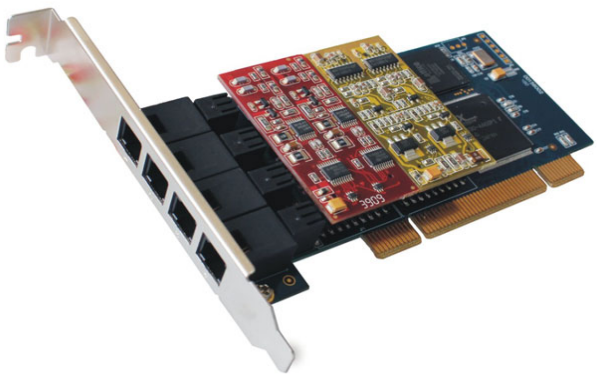
- AUDIO SPECIFICATIONS

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

- SAMPLING RATE: 8KHz

- SAFETY AND CERTIFICATIONS

Lightning Resistance: Level 4
Certifications: FCC, CE & CCC

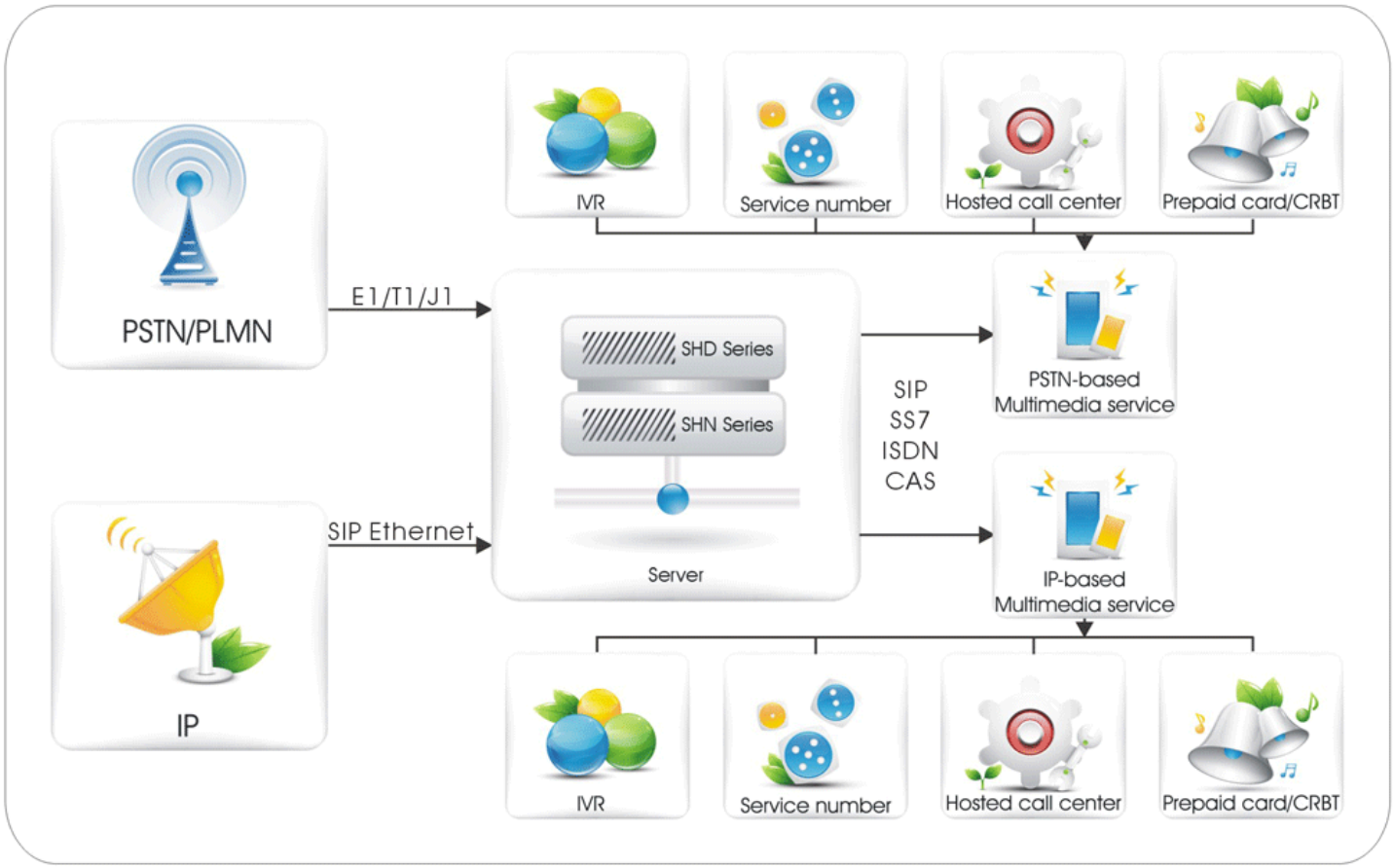


APPLICATION DIRECTORY

Multimedia processing & signaling convergence in IP & PSTN networks

Synway leverages years of expertise in traditional and next-generation signaling and multimedia processing technologies to provide service providers and application developers with robust hardware components for gateway and media processing applications. Synway's architecture, combined together, evolutionally converge communication technologies for PSTN and IP networks and offer more features that traditional media gateway delivers, including a broader range of signaling technologies and powerful media processing capabilities.

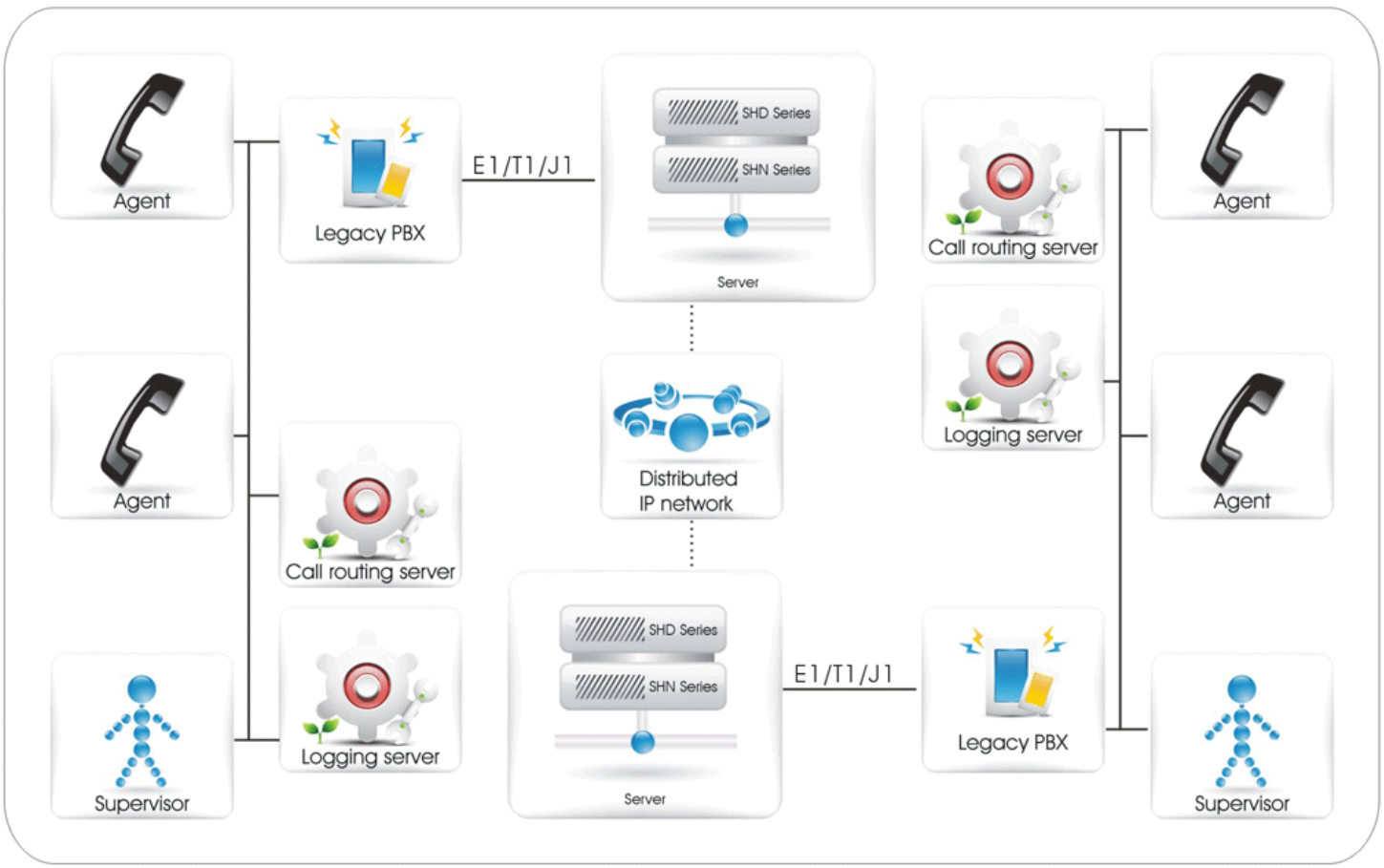
Talking advantaging of Synway's components, Telco, enterprises and carriers can benefit from an array of combined sophisticated application platforms, not only gateway functionality from PSTN to IP through converting a variety of SS7 packets, ISDN variants and(or) CAS into SIP protocols, but rich media processing capabilities, including fax, compression, echo canceller. and conferencing used for IP gateway. media server. IVR, hosted call center, media streaming, conferencing, fax server and more. With this innovative convergence of IP and PSTN access technologies, service providers and application developers can deliver matchless cost, function-rich, highly adaptive applications or services in single box to market more rapidly.



Gateway & media processing for multinational enterprise

Utilizing Synway's IP and PSTN hardware platforms with unified API and SDK, developers or service providers can load SIP, SS7 ISDN PRE and CAS protocols in a box and simply migrate applications between IP and PSTN platforms. This convergence can act as an inter-working device or gateway between an IP-based network and legacy PBX. Usually, legacy PBX is a substantial infrastructure investment, and access to PSTN-based service is less cost effective.

To take full advantage of cost effective, feature-rich SIP-based services and expensive legacy PBX in IP and PSTN networks, evolutionary combination of Synway's IP and PSTN architectures is valuably practical. That makes communications more cost effective from IP phones to traditional phones, or from traditional phone to traditional phone (two gateways implemented on two end points). Interconnecting IP network with legacy PBX, Synway's IP and PSTN-based technologies save enterprise and telecom equipment manufactures(TEM), call center designers, or system integrators much cost of communication trunks.



SHN & SHD & SHT

Combined in IP & PSTN Networks

Snway's IP media processing architecture SHN, together with Synway's PSTN media processing and signaling hardware SHD, forms a .complete, flexible, high perform turkey solution for VoIP applications to who need to connect their service or applications to legacy PSTN networks. This combination brings highly scalable, flexible PSTN to IP transport and signaling functionality, standard PSTN trunks and NIC interfaces and supports for SIP, SS7 (ISUP/TCAP/TUP/MTP), SCCP(MAP), ISDN variants, CAS as well as a wide range of media processing capabilities. In addition, this evolutionary combination makes it easy add cost effective to offer SIP-based services to traditional telephony users, or connect traditional PSTN applications to IP telephony subscribers.

Synway's IP signaling and media processing technologies cater to ultimate demands of pure IP-based applications in the ever changeable environment. Synway's underling thinking of product design is to make this ultimate IP-based demands and PSTN-based applications closely interconnected as well as completely independent. For that, application developers, by choosing Synway's IP and PSTN platforms, can not only resolve existing problems, but simply separate ultimate IP-based applications from hybrid IP and PSTN solutions when IP networks completely replace PSTN.

Synway's combined IP and PSTN media processing and signaling platform adapts unified application programming interface (API), which enables service providers and solution developers to migrate PSTN-based services to Synway's IP architectures or connect SIP-based service to PSTN networks rapidly and efficiently. Simplifying development and deployment efforts, Synway's SDK provides protocol-independent access to SIP, SS7 packets, most global ISDN variants, CAS, and support a variety of Windows and Linux operating systems.

In hybrid IP and PSTN networks, a new range of applications can be realized by Synway's combined IP and PSTN access technologies, such as gateway, hosted call center, IVR, prepaid card service, voice mail, faxmail, unified messaging, auto attendance, conferencing and more. Synway's IP and PSTN architecture provide service providers and application developers with matchless cost advantage, powerful signaling protocols and multimedia resources in most demanding applications. With years of expertise of technical support service worldwide, Synway's engineers offer responsive and efficient development, deployment, and design support to help developers rapidly deliver sophisticated revenue-generating applications.

Reliability

At Synway, component and architectural reliability are an integral part of design. Built for the demanding central office environment, Synway's media processing and signaling architecture exceeds stringent standards and carrier-grade solutions in complex operator network. An array of high- capability, over-million subscribers' installations worldwide have proven Synway's Telco-grade stability since 1990s.

Designed for full redundancy, Synway's hardware includes all featured reliability, such as hot swappable, redundant SS7 connection, and enables upgrade without downtime plus full redundancy and operation protection. To ensure the highest availability, Synway continues to use advanced processing technologies, such as Direct Memory Processing (DMA), best-of-breed components such as T1 DSP chipsets.

Scalability

Synway design gives telecom solution providers the ability to easily add more capacity when they need it and makes carriers pay exactly for ports required instantly and scale up more capacity for future as needed. This gives service providers full control over growth and ensures capital expenses are not tied up for non-revenue generation overcapacity. Synway's hardware can scale up to 1,920 ports (IP and/or TDM) and 96 SS7 links by simply adding components as needed. In multiple nodes, Synway's hardware can support boundless expansion.

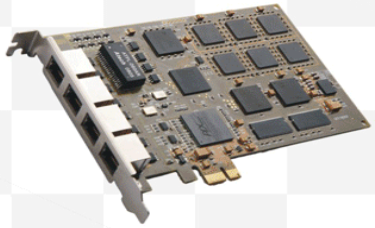
With Synway, a developer's initial investment is protected since all configuration use the same hardware and application interfaces and expansions are built on top of the existing system. With no upfront costs for unneeded hardware or software application, the platform grows as your traffic grows.

Synway Products Family

Multimedia Switch Platform

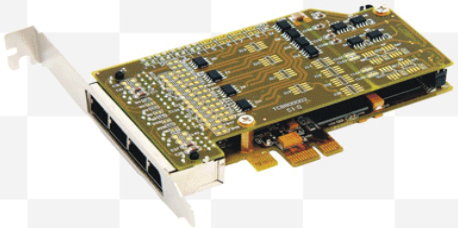
UMCT integrated multimedia switch platforms are open programmable platforms with integrated multimedia processing and signaling capabilities. In addition to rich media resources, the switch platforms help bridge existing wired and wireless networks with IP networks, and integrate for IP (SIP and H.323) / TDM (SS7/ISDN/CAS) / mobility protocols with IVR, fax, conferencing, compression, echo cancellation and other media processing resources. 1U,2U,6U available, the UMCT supports up to 64E1/T1/J1 or 128FXO/FXS channels per system.

Call Recording Series



Synway offers the broadest range of call recording hardware platforms. For two decades Synway has consolidated its position as a leading international call recording hardware solution vendor. Having worked with our products over time, our clients have helped Synway achieve: the most diverse product ranges, greatest scalability, greatest compliance with multi-protocols and multi-networks, and the most installations in Asia and Europe. Our offerings can passively tap analog/digital/PBX/IP lines.

Open Source Series



Synway open source family includes four product lines: FXM series analog telephony boards, TEJ series digital telephony boards, CDC series boards for transcoding, chassis-based Asterisk appliance. The open-source family reassures high interoperability, voice quality and robustness. All these Asterisk hardware platforms adopt Synway's patent-pending echo cancellation technology SuPerForm(128ms echo tail).

VALUE MAXIMUM BEYOND TOMORROW

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