VoIP Gateway

Venus 2804
Venus 2808
Venus 2816
Venus 2832

≫ Comply with MGCP, SIP and Megaco standards

≫ Support QoS function to guarantee voice quality

≫ Easy for mass deployment by using auto provisioning through TFTP

≫ Fully compatible with leading soft switches

≫ Modularized design of voice interfaces supporting up to 32 FXS/FXO channels (Venus 2832)

≫ Toll quality voice compression

≫ Internal dialing when network disconnected (MGCP)

TAINET Communication System Corp. announces the VoIP Gateway solution is a line of purpose-built. The Venus Series VoIP Gateway is designed for empowering service providers to deliver Carrier-Class IP Centrex service over an Total-IP infrastructure NGN. Venus VoIP solutions support for multiple types of popular signaling protocols, MGCP, SIP and Megaco.

The Venus gateway provides a connection platform between traditional POTS lines and the Internet. Over various broadband technologies, including xDSL, cable, wireless, fiber, this gateway was designed to carry toll quality voice, fax and data traffic simultaneously in a cost-effective way. With advanced authentication and router function, Venus provides security and QoS support capacity. Plus, the Venus CPG supports intelligent features like long loop, polarity reversal, caller ID, call transfer, waiting and 3-way calling. The ideal applications include MTU/MDU, Virtual PBX, Discounted International, Enterprise, IP Centrex or hosted Telephony services.

To fulfill E911 requirement, Venus 2804/2808 stand-alone gateways build with PSTN backup line for life line phone application. All of TAINET VoIP Gateway solutions are fully tested to interoperate with world's leading MGCP softswitch and SIP servers, such as Verso, Nuera, Cirpack, Sonus, Lucent, Alcatel, Huawei, and so on. Additionally, Tainet UNMS, telnet and SNMP, TFTP upgrade make Venus a terrific gateway solution in wide range network deployment.

TAINET TAINET COMMUNICATION SYSTEM CORP.

VoIP Gateway product family

Venus 2804

Venus 2804 is a SOHO VoIP Gateway with built-in 4 channels voice processing capacity and 1 PSTN port for life line or back up purpose. The Venus 2804 connects with external cable or DSL modem, which can easily extend current network infrastructure into TAINET VoIP solution. TFTP upgradable makes Venus 2804 to be a terrific gateway solution in wide range network deployment. Choosing TAINET Venus 2804 starts to save long distance calling bills today.

Venus 2808

Venus 2808 Residential Gateway VoIP is a compact standalone product with built-in 8 channels voice processing capacity and 1 PSTN port for life line or back up. It makes an economic investments by extending equipment. In addition, Venus 2808 provides an easy way for residential subscribers transition to Next Generation IP network.
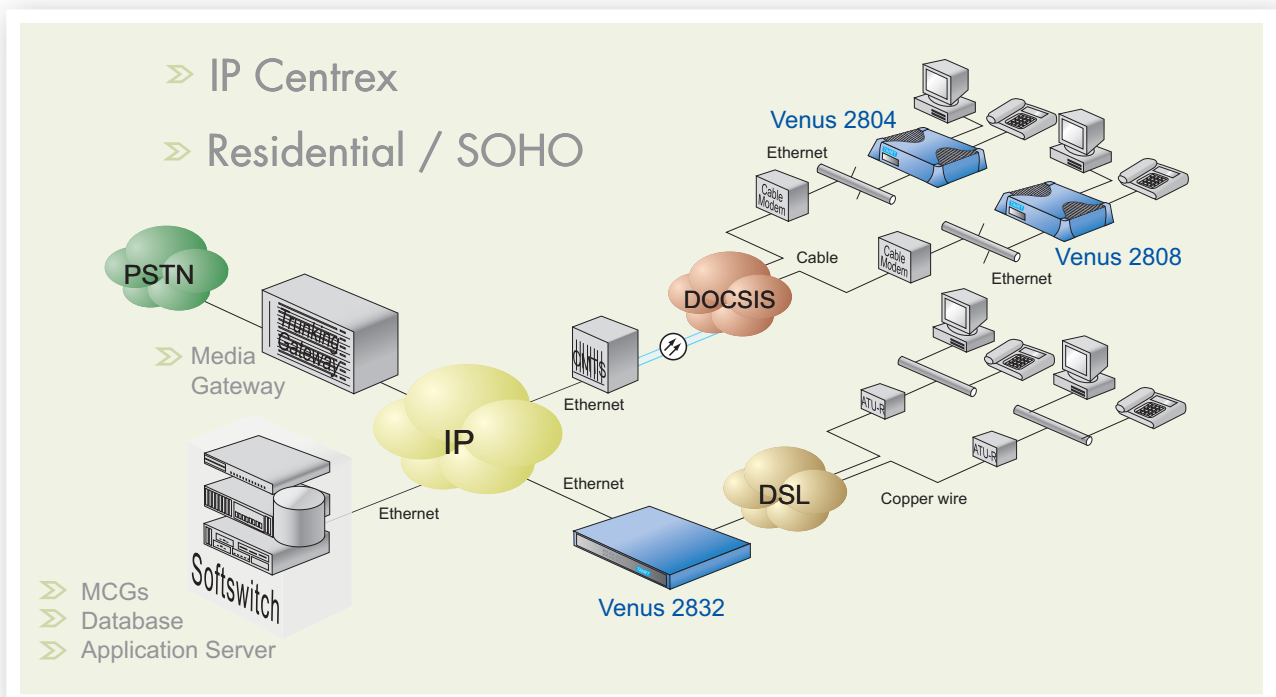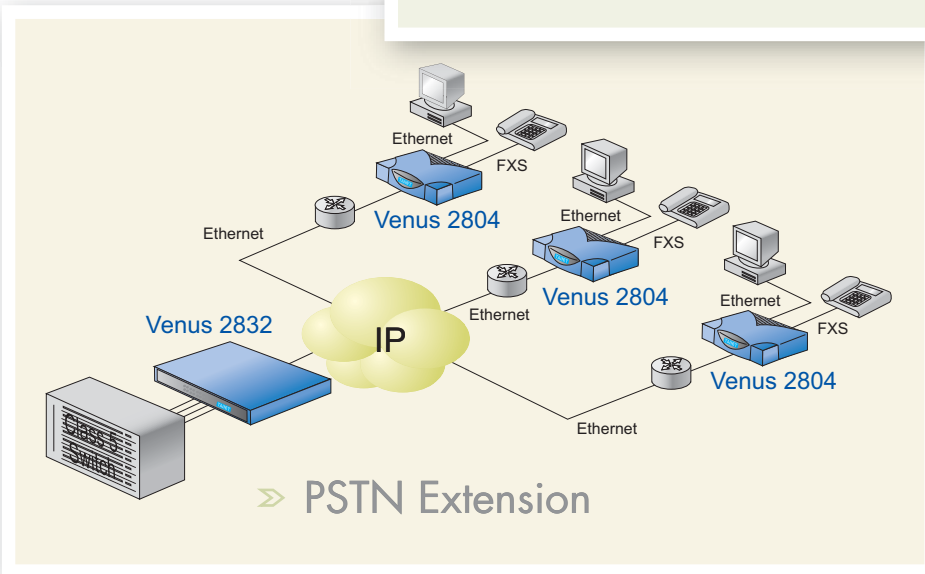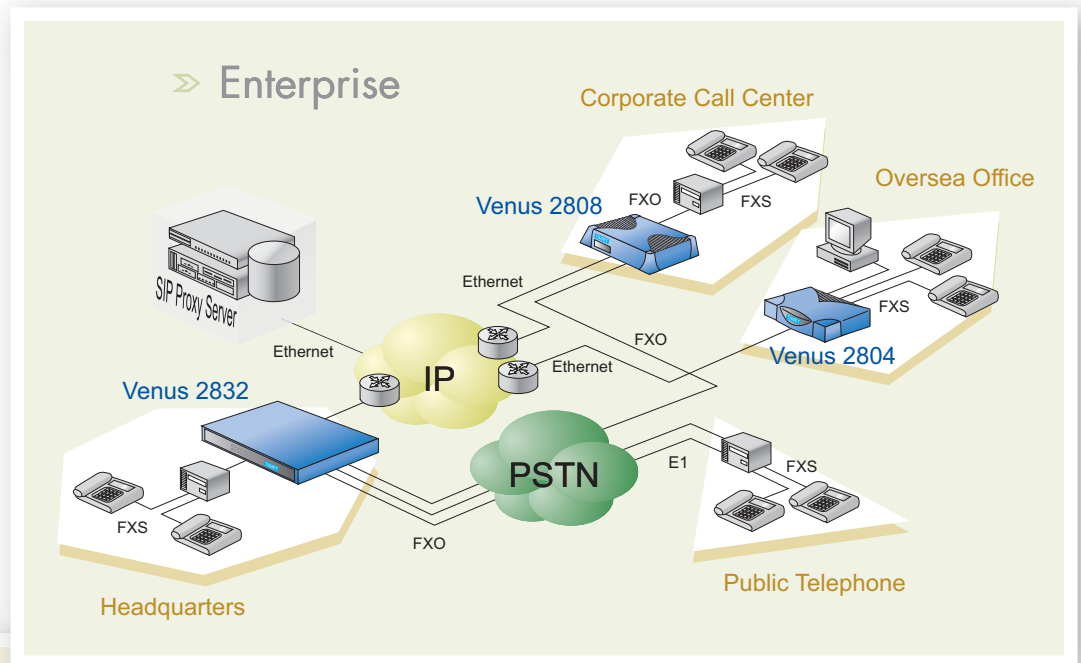
Venus 2816

Venus 2816 is a Carrier-class platform that provides PSTN subscribers all telephony services such as call waiting, 3 way calling, speed dail, call hold and so on. It can be connected with 16 FXS ports/one WAN, one LAN (10/100 Base-T Ethernet), which makes an ideal model for small or medium enterprise infrastructure.

Venus 2832

Venus 2832 is modularized designed for service provider and large-enterprise. Supporting up to 32 FXS/FXO ports. Optional 100 Base-FX uplink can be worked with FTTx application.

≫ IP Centrex

≫ Residential / SOHO

≫ Media Gateway

≫ MCGs
≫ Database
≫ Application Server

PSTN

IP

DOCSIS

DSL

Venus 2804

Venus 2808

Venus 2832

Ethernet

Cable

Copper wire

Softswitch

TAINET COMMUNICATION SYSTEM CORP.

Enterprise

Corporate Call Center

Venus 2808

FXO   FXS

Oversea Office

Ethernet

SIP Proxy Server

FXO

Ethernet

FXS

Venus 2804

Ethernet

IP

Venus 2832

PSTN

E1   FXS

FXS

FXO

Public Telephone

Headquarters

Venus 2832

Ethernet

FXS

Venus 2804

Ethernet

Ethernet

Venus 2804

FXS

Ethernet

Ethernet

IP

FXS

Venus 2804

Ethernet

Class 5 Switch

PSTN Extension

Fully Standards

The Venus series implement with MGCP and SIP protocols.

Quality of Service

The Venus series complies with 802.1 Q, 802.1 P standard, and ported based VLAN functions.

Flexible and Scalable

The Venus series provides four models to fulfill various network infrastructures.

Capacity

One Venus 2832 can accommodate up to 32 FXS/FXO ports, thus optional 100 Base-FX uplink can worked with FTTx Application. 19" rack mount designed, which makes subscribers easy to deploy a cost-effective and cutting edge technology solution.

Convenient call features

The Venus series can be supported with multiple convenient call features for PSTN subscribers, including 3-way call, hot-line, speed dial, call hold, call waiting, call transfer, call forward, call return, deny second stage dialing, voice mail notification. Calling over Ethernet environment is so easy. It just likes to use regular telephone calls. The high voice quality services offer users to have a better brand choose in the market.

Easy to use management tool

The network administrator can choose various control and management tools, such as Command Line Interface and TFTP software upgradeable solution.

	Venus 2804	Venus 2808	Venus 2816	Venus 2832
Call (Signaling) Control Protocols	MGCP (RFC 2705), NCS 1.0, SIP (RFC 3261), Megaco (H.248)			
Interface				
Voice	4 FXS	8 FXS	16 FXS	Modularized design in 8-port basis
Data	1 LAN, 1 WAN			1 LAN, 1 WAN WAN: 100 Base-Tx or 10/100 Base-Fx
Analog Voice Port				
Interface	RJ-11		RJ-21 centronic to 50 pin Teleco cable	
Signaling	FXS loop-start		FXS, FXO loop-start	
In-band signaling	DTMF tone detection/generation			
Short or long haul	Up to 5,000 meters at 26 AWG			
PSTN backup and life line	1	1	N/A	Optional model 2832AP+
Voice Features	3-way call, hot-line, speed dial, call hold、waiting、transfer、forward、return, deny second stage dialing, Voice mail notification			
E.164	For SIP model only			
Caller ID	Bellcore, ETSI, DTMF			
Caller ID Blocking	Via 3323 and 3325			
Configuration hook-flash timing	Yes			
Polarity Reversal	Yes			
DID (Direct Inward dialing)	FXO model only			
Internal phone book	For SIP model only			
Digit Map	For SIP model only			
FAX Mode	Transparent mode (G3, T.30), relay mode (T.38 real time), auto-detection			
Data Features				
Advanced Routing	Static router/NAT/PAT/DHCP client/DHCP server			
Switch Mode	Support VLAN, cascading			
STUN	For SIP model only			
Dynamic DNS	For SIP model only			
Security				
MGCP Authentification	(DH) Key Agreement & MD5 Encryption			
SIP Authentification	MD5 Encryption			
Quality of Service	Port-based VLAN; DSCP (TOS), 802.1 p/q			
System management & maintenance	Telnet, console, http, syslog/call log, remote upgrade, restore default, SNMP NMS, auto provisioning, Billing software (optional)			
Safety certification	EMC, LVD, FCC part 15 class A, FCC part 68, UL			
Quality Enhancement Technology	VAD, slience suppression, CNG, adaptive jitter buffer, G.165 & 168 echo cancellation, compensation for loss of packet, in-band or RFC 2833 relay, selectable Tx/Rx gain control			
Physical				
Power	AC-DC adaptor		90 ~ 240 VAC/ -36 ~ -72 VDC	
Mounting	Table top		Rack mount	
Operational / Storage temperature	0℃ ~ 50℃ / -10℃ ~ 70℃			
Humidity 10%~90% (non-condensing)	10% ~ 90% (non-condensing)			
Dimension (WxDxH) mm	243 x 190 x 45	245 x 200 x 60	437 x 287 x 44	
Weight	700g	1.4kg	4kg	