



Morph and harmonize your network

Descriptions

The Venus series Fax and Voice over Internet Protocol (F/VoIP) gateways allow service providers to quickly integrate and provide VoIP service to SOHO, SME, or MDU (Multiple Dwelling Unit) customers. VoIP is a cost-effective, cutting-edge technology that provides scalable analog voice interfaces for driving analog telephone sets or fax machines.

Venus series equipment can be placed on the desk-top or in a controlled-access telephone equipment room of a intelligent building. All existing analog phones, PABX, KTS, and faxes can be easily migrated to IP networks via various broadband access technologies such as 10/100 BaseT Ethernet, ADSL, cable modem, LMDS, DSL router, etc.

The Venus series is a remote-manageable equipment. A smart, compact device designed to be installed either as a desk-top or rack-mount unit. Venus series is interoperable with leading MGCP soft switch. The advanced MGCP (Media Gateway Control Protocol) service will be able to extend back-office intelligence, such as billing, accounting, call signaling, and management.

Features

- Coders include: G.711, G.723.1, G.726, and G. 729A
- Compliant with MGCP protocol 0.1, 1.0, and NCS 1.0
- Comply with leading vendors' MGCP call manager and soft switch such as Clarent, Lucent, Sonus, and Huawei
- Venus 2804: 4 port VoIP SOHO GW and 1 life line PSTN port
- Venus 2808: 8 port VoIP GW and 1 life line PSTN port
- Venus 2832 series: 8 / 16 / 24 / 32 port VoIP MDU GW
- High quality voice, data, and fax over IP networks
- Connected to the IP networks via Ethernet interface
- Front panel LEDs provide status of operation
- Optional billing system for Venus series
- Supports polarity reversal for phone booth application
- Long loop for long distance FXS connection
- NAT supported



Venus 2804



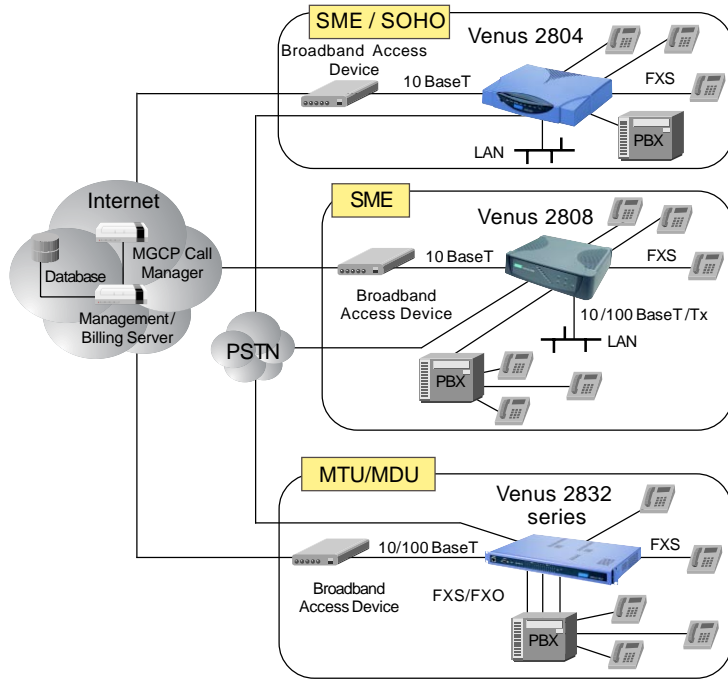
Venus 2808



Venus 2832 series

Venus Series Voice over IP Gateway

Application Diagram



Technical Specifications

Telephony Interface

- Number of ports
 - 2804 : 4 ports + 1 PSTN port
 - 2808 : 8 ports + 1 PSTN port
 - 2832 series : 8 / 16 / 24 / 32 ports
- Interface type
 - Analog : FXS/FXO loop start, 2W analog telephone/ G3 Fax line
- Connectors
 - 2804 : analog FXS 4 x RJ-11 and 1 x PSTN RJ-11
 - 2808 : analog FXS/FXO 8 x RJ-11 and 1 x PSTN RJ-11
 - 2832 series : analog 50-pin centronics connector(for FXS/FXO)
- Echo cancellation
 - ITU-T G.165/ G.168 (35ms)
- PCM interface
 - ITU-T G.711 A-Law or u-Law
- Voice codecs
 - ITU-T G.723.1, G.729A and G.726
- Tone detection
 - DTMF, call progress, V.21/V.25 Data/Fax/Voice auto switch over, ...etc.
- Tone generation
 - Dial tone, busy tone, ringback tone, ...etc.
- Voice Activity Detection (VAD) supported
- Silence suppression supported
- Comfort Noise Generation (CNG) supported
- DTMF relay supported (MGCP or RFC 2833)
- Gain control selectable
- Long loop (for long distance FXS capability)

WAN Interface

- 10 BaseT or 10/100 BaseT
- 100 BaseFx Fiber Optical

LAN Interface

- Ethernet port (VLAN/QoS Switch or Router mode)

Protocol

- Call control
 - MGCP (Media Gateway Control Protocol) 1.0, NCS 1.0
- Internet protocol
 - TCP/IP, UDP/IP, RTP, SDP, Telnet, HTTP, TFTP, PPPoE, DHCP, DNS, ICMP, SNMP, NAT/NAPT, RIPI/II, UPnP, ...etc.

- IP assignment
 - Static or DHCP client/server
- NAT function

FAX Mode

- ITU-T T.38
- ITU-T V.21, V.27ter, V.29 and V.17

Console Port

- RS-232, DB-9

Management

- Console
- Telnet
- HTTP Web-based browser management (optional)
- Network provisioning via DHCP server / TFTP server
- SNMP
- UPnP

Remote Software Upgrade

- Download via a TFTP server

Power Requirements

- 2804 : AC to DC power adapter (DC12V/ 1A)
- 2808 : AC power: 90~ 260 VAC, 50 ~ 60Hz, 27W
- 2832A+/2832AE+ : AC power: 85~ 260 VAC, 50 ~ 60Hz, 80W
- 2832D+/2832DE+ : DC power: -36 ~ -72 VDC, 80W

Dimensions

- 2804 : 243mm (W) x 190mm (D) x 45mm (H), weight: 700 g (without AC-DC adaptor)
- 2808 : 245mm (W) x 200mm (D) x 60mm (H), weight: 1.4 Kg
- 2832 series : 437mm (W) x 286mm (D) x 44mm (H), weight: 4 Kg

Operating Environment

- Operation temperature: 0 °C ~ 50 °C
- Storage temperature: -10 °C ~ 70 °C
- Relative humidity: 10% to 90% (non-condensing)

EMC Certification

- CE mark, FCC part 15 class A

Safety Certification

- UL, CE, FCC part 68, CB

Ordering Info

Basic Unit	Description
Venus 2804	4 FXS ports VoIP Gateway with 1 PSTN port for backup, AC-DC power adaptor
Venus 2808/*	8 FXS or FXO ports VoIP Gateway with 1 PSTN port for backup, AC power only
Venus 2832A+/*/*/* Venus 2832D+/*/*/*/*	High density VoIP Gateway base unit with AC power (A for AC, D for DC); 32 channels voice processing capacity; 2 I/O slots for voice modules (support up to 32 voice ports); 1 I/O slot for LAN/ WAN Modules
Venus 2832AE+/*/*/*/* Venus 2832DE+/*/*/*/*	High density VoIP Gateway base unit with AC power (A for AC, D for DC); 16 channels voice processing capacity; 1 I/O slot for voice modules (support up to 16 voice ports); 1 I/O slot for LAN/ WAN modules
(&) LAN/WAN Modules for 2832 A+, AE+, D+, DE+	
/UTP-1	1 x 10/100 Base T/Tx module
/UTP-2	2 x 10/100 Base T/Tx LAN/ WAN modules
/UTP-2F	1 x 100 Base-FX, 1 x 10/100BaseT LAN/ WAN modules
(*) Voice Module	
/FXS-8	8-port FXS voice module for Venus 2832 series
/FXS-8A	8-port FXS add-on card for FXS-8 or FXO-8
/FXO-8	8-port FXO voice module for Venus 2832 series
/FXO-8A	8-port FXO add-on card for FXO-8
(^) Optional Cable	
/Telco-Cable	Telco Cable provides 1 x RJ-21(male) connect to Venus 2832 voice module and 50 wires connect to patch panel; 3.5 meter
/RJ-Cable	RJ-21 to RJ-11 cable; provides 1 x RJ-21(males) connect to Venus 2832 voice module and 16 x RJ-11 connect to phone; 3.0 meter



The Professional Partner

* Specifications subject to change without notice.

TAINET COMMUNICATION SYSTEM CORP.

Headquarters

No. 25, Alley 15, Lane 120, Sec. 1. Nei-Hu Rd, 114 Taipei, Taiwan

TEL: 886-2-2658-3000

FAX: 886-2-2658-3232

http://www.tainet.net