DGW-300X Digital Gateway

Overview

DGW-300X is a digital VoIP voice gateway that supports E1/T1 digital trunk interfaces. It enables interconnection between traditional digital telephony lines (PSTN/ISDN) and VoIP networks, allowing smooth integration of legacy telephone networks with IP voice systems. The device provides an intuitive Web-based graphical management interface, enabling users to quickly complete configuration, maintenance, and service customization. It also supports open API interfaces for secondary development and system integration.

DGW-3001, DGW-3002 and DGW-3004 provide 1, 2 and 4 software-configurable E1/T1 interfaces respectively. They support PRI, SS7 and R2 signaling, with maximum concurrent call capacities of 30, 60 and 120 channels respectively, meeting digital trunk access and VoIP interconnection requirements for deployments of different scales.

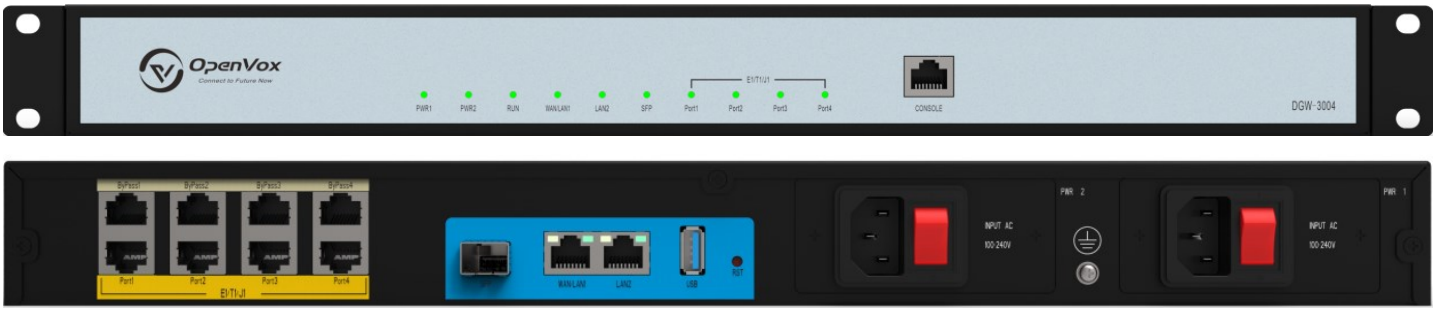
DGW-3001



DGW-3002



DGW-3004



Physical Interfaces

Capacity

- 1/2/4 E1/T1 Ports
- 1/2/4 E1/T1 Failover Bypass Ports
- 1 * RS232 Console Port (RJ45)
- 1 * USB
- Dual power supply, DC or AC input optional

Ethernet Interfaces:

- 1 * WAN/LAN1: 1000Mbps, RJ-45
- 1 * LAN2: 1000Mbps, RJ-45
- 1 * SFP: 1000Mbps

PSTN

ISDN PRI

- 23B+D(T1),30B+D(E1),NT or TE ITU-T Q.921, ITU-T Q.931, Q.Sig

Signal 7/SS7

- ITU-T, ANSI, ITU-CHINA MTP1/MTP2/ MTP3, ISUP

E1 Frame Type : DF,CRC-4,CRC_ITU

T1 Frame Type :

- 2-Frame Multi-frame (F12, D3/4) Extended Super-frame (F24, ESF)

Line Codes:

- E1:HDB3 T1:B8ZS

Clock : Local/Remote Clock Source

System Features

- E1/T1/PRI, supporting up to 30/60/120 concurrent calls
- Signaling: PRI/R2/SS7
- Support up to 24 countries' standard R2 signaling
- Simple and convenient configuration via Web GUI
- Support protocols: SIP, TCP, UDP, RTP, SSH, HTTP, HTTPS
- Support NTP time synchronization
- Support SSH access for background management, Asterisk CLI command operation
- Open API for all functions
- Support ports group management
- Support for custom dialplans
- Firmware update by HTTP
- Support call statistics
- Support auto provisioning
- Support dynamic channel status display
- Support configuration file bachup and upload
- Multiple detailed log outputs
- Support scheduled reboot
- Support Asterisk, Issabel,3CX, FreeSWITCH, VOS, and BroadSoft IPPBX platforms

Voice & FAX

- G.711A/U,G.723.1,G.729A, iLBC, OPUS, AMR and AMR-WB
- Comfort Noise Generation(CNG)
- Adaptive (Dynamic) Jitter Buffer
- Programmable Gain Control
- DTMF mode: SIP INFO/RFC4733/INBAND
- T.38/Pass-through

Network Features

- Network Type: Static IP,DHCP
- IPv4/IPv6, UDP/TCP, DHCP, TFTP, SCP
- HTTP/HTTPS/SSH
- Support ping and traceroute via Web GUI
- Support network capture on the web
- Support MGT and IP aliases
- Layer 2 and Layer 3 QoS
- DNS SRV fast switching
- Loopback network topology hiding
- Cloud-based Management
- SNMP

Routing

- Flexible routing settings
- Support up to 512 routing rules
- Support caller/callee manipulation and filtering
- Support add, modify & delete routing
- E1/T1 port grouping

VoIP Protocol

- SIP v2.0 (UDP/TCP),RFC3261
- SDP,RTP(RFC2833), RFC3262, 3263,3264,3265,3515,2976,3311 SIP TLS/ SRTP
- RTP/RTCP, RFC2198, 1889
- SIP-T,RFC3372, RFC3204, RFC3398
- SIP Trunk Work Mode : Peer/Access
- SIP/IMS Registration :With up to 2000 SIP Accounts
- NAT: Dynamic NAT, Rport

DGW-300X Digital Gateway

Product Model	DGW-3001	DGW-3002	DGW-3004
Interfaces			
E1/T1 Ports	1	2	4
Failover Ports	1	2	4
Console	1 * RS232（RJ45）		
Ethernet Interfaces	2 * 1000Mbps RJ45 1 * 1000Mbps SFP		
General Info			
Weight	5.2kg	5.3kg	5.5kg
Dimension	440 mm*318 mm*44.4 mm		
Redundant Power Supply	Supported by default		
Maximum power Consumption	15W		
Input Voltage（AC power）	100 V ~ 240 V AC		
Input Voltage（DC power）	-48 V ~ -60 V DC		
Concurrent Call	30	60	120
Operating Temperature	0°C ~ 50°C		
Operating Humidity Range	10% ~ 90% non-condensing		
Storage Temperature Range	-20°C ~ 70°C		
Certification	CE		

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