NPG200 PRI Trunk VoIP Gateway

Overview

Neox NPG200 Trunk Gateway enables direct routing of calls between the fixed line ISDN and the cost-effective IP networks for capitalizing on low cost VoIP telephony. By integrating Neox NPG200 Trunk Gateway with existing PBX / PABX telephone systems, businesses of all sizes can benefit from low-cost Voice over IP calls and achieve substantial cost savings without the high upfront costs associated with communications infrastructure changes related with the migration to VoIP.

Neox NPG200 offering PBX/IP-PBX users a powerful telephony cost saving device and advanced flexible routing capabilities between ISDN PRI to SIP, and also can be situated between the PBX and the PSTN, saving the cost of an additional PBX E1/T1 port. It is ideally fit for various access networks of SMEs, call centers, telecom operators and large-scale enterprises.

Pictures

NPG200 - Front

NPG200 - Back

Key Features

- Up to 60 simultaneous calls with 2* E1/T1 ports
- Support echo cancellation, DJB, CNG, VAD and QoS
- Use of existing E1/T1 ISDN PRI interface of the PBX
- Use of existing VoIP interface of the IP-PBX
- Maintain existing dialing habits and business communication patterns
- Built-in Web-based management, SNMP, command line interface (CLI)
- Standard ISDN compliant and Interoperable with a wide range of IP-PBXs

Physical Interfaces

E1/T1 Ports
1 to 2 E1/T1
Interface Type
RJ48(Impedance 120Ω)
Ethernet Interface
GE1: 10/100/1000 Base-T Adaptive Ethernet
GE0: 10/100/1000 Base-T Adaptive Ethernet
Serial Port
1* RS232, 115200bps

Voice Capabilities

Default codec:G.711a/μ law, AMR
G.723.1, G.729AB, iLBC
Silence Suppression
Comfort Noise
Voice Activity Detection
Echo Cancellation (G.168), up to 128ms
Adaptive Dynamic Buffer
Voice ,Fax Gain Control
FAX:T.38 and Pass-through
Support Modem/POS
DTMF Mode: RFC2833/SIP Info/In-band
Clear Channel/Clear Mode
VLAN 802.1p/q
60 Concurrent Calls

PSTN

ISDN PRI
23B+D(T1),30B+D(E1),NT or TE
ITU-T Q.921, ITU-T Q.931, Q.Sig
SS7 (optional)
 ITU-T, ANSI, ITU-CHINA
 MTP1/MTP2/MTP3, TUP/ISUP
R2 MFC (optional)
China and other 22 variants standard
E1 Frame Type :
 DF,CRC-4,CRC_ITU
T1 Frame Type :
4-Frame Multi-frame (F4,FT),
2-Frame Multi-frame (F12, D3/4),
Extended Super-frame (F24, ESF) ,
Remote Switch Mode (F72, SLC96)
Line Codes:
E1:NRZ,CMI,AMI,HDB3
T1:NRZ,CMI,AMI,B8ZS

Maintenance

Web GUI Configuration, HTTP/HTTPS
Data Backup/Restore
PSTN Call Statistics
SIP Trunk Call Statistics
Firmware Upgrade via TFTP/Web
SNMP v1/v2/v3
Network Capture
Syslog:
Debug, Info, Error, Warning , Notice
Call History Records via Syslog
NTP Synchronization
Device Events to Email
Centralized Management System

Software Features

Local/Transparent Ring Back Tone
Overlapping Dialing
Dialing Rules，with up to 2000
Voice Codecs Group
Access Rule Lists
100 SIP Trunks
Route direction:
PSTN-IP, IP-PSTN, PSTN-PSTN,
IP-IP

VoIP Protocol

SIP v2.0 (UDP/TCP),RFC3261
SDP,RTP(RFC2833), RFC3262,
3263,3264,3265,3515,2976,3311
RTP/RTCP, RFC2198, 1889
TLS/SRTP
SIP-T,RFC3372, RFC3204, RFC3398
SIP Trunk Work Mode :Peer/Access
SIP/IMS Registration :
with up to 256 SIP Accounts
NAT: Dynamic NAT, Rport

Environmental

Power Adapter: 100-240VAC@DC12V1A
Power Consumption:15W
Operating Temperature:0 ℃ ~ 45 ℃
Storage Temperature: -20 ℃ ~80 ℃
Humidity:10%-90% Non-Condensing
Dimensions(W/D/H): 225*150*38mm
Unit Weight: 0.8kg
Compliance: CE, FCC

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