NEOGATE TA Series

Analog VoIP Gateway

NeoGate TA Analog VoIP Gateways are cutting-edge products that connect legacy telephones, fax machines and PBX systems with IP telephony networks and IP-based PBX systems. Featuring rich functionalities and easy configuration, NeoGate TA is ideal for small and medium enterprises that wish to integrate a traditional phone system into IP-based system. NeoGate TA helps them to preserve previous investment on legacy telephone system and reduce communication costs significantly with the true benefits of VoIP.

Feature Highlights

- ✓ 4/8/16/24/32 FXS ports or 4/8 FXO ports
- ✓ Fully compliant with SIP and IAX2
- ✓ Flexible calling rules
- ✓ Reliable fax performance with T.38
- ✓ Provides high-quality voice compression with industry standard codecs
- ✓ Line echo cancellation for 32, 64 or 128 ms echo delays
- ✓ Web-based GUI for easy configuration and management
- ✓ Excellent interoperability with a wide range of legacy and IP equipment

Interfaces

- TA400/800/1600/2400/3200: 4/8/16/24/32 RJ11 FXS ports
- TA1600/2400: 1 50-pin Telco Connector TA3200: 2 50-pin Telco Connectors
- TA410/810: 4/8 FXO ports
- LAN: 1 (10/100Mbps)
- TA1600/2400/3200: 1 RS232 port

Media Processing

- Protocol: SIP (RFC 3261), IAX2
- Transport: UDP, TCP, TLS, SRTP
- Voice Codec: G.711 (alaw/ulaw), G.722, G.726, G.729A, GSM, ADPCM, Speex
- Echo Cancellation: ITU-T G.168 LEC
- Quality Enhancement: Dynamic Jitter Buffer, VAD, CNG, PLC
- DTMF Mode: RFC2833, SIP INFO, In-band
- Fax over IP: T.38 and pass-through

Telephony Features

- Attended Transfer
- Blind Transfer
- Call Detail Record (CDR)
- Caller ID Display or Block
- Call Forward: No Answer, Busy, All
- Call Waiting
- Do Not Disturb
- Hunt Group
- Paging
- 3-way Conference

IP Services

- DHCP
- DDNS
- Firewall
- IP Blacklist
- NAT Traversal: Static NAT, STUN
- Network Attack Alert
- Network Protocol: UDP, TCP, TFTP, HTTP, HTTPS, SSH
- OpenVPN
- QoS/ToS
- Static Route
- VLAN

Management

- Voice Prompt
- Configure Backup/Restore
- Firmware Upgrade by HTTP/TFTP
- Web-based Configuration
- Packet Capture
- System Logs
- RADIUS
- Real Open API Protocol (Based on Asterisk)
- TR-069*
- SNMP*

FXS/FXO Connectivity

- Signaling: Kewl Start, Loop Start
- Connector: RJ11, RJ21
- Caller ID: BELL202, ETSI (V23), NTT (V23-Japan), and DTMF-based CID
- Disconnect Methods: Busy Tone, Polarity Reversal

Applications

- Customer premises gateway for SIP Trunking
- Access device for enterprise converged communications solutions
- Remote access device for call center and dispatching system
- Access device for Lync Server integration solutions

Environment

	Dimensions (mm)	Power Supply
TA400	200 (L) × 137 (W) × 25.6 (H)	12V 1.5A
TA800		
TA410		
TA810		
TA1600	440 (L) × 250 (W) × 44 (H)	AC 100-240V 50/60Hz
TA2400		
TA3200		

- Operation Range: 0°C to 40°C, 32°F to 104°F
- Storage Range: -20°C to 65°C, -4°F to 149°F
- Humidity: 10-90% non-condensing

*Feature in the next release