

# Carrier Class Analog VoIP Gateway



2916,2924,  
2932 Series



2908 Series

The Paradoxes 29xx Series analog VoIP gateways are feature-rich and cost-effective products designated for telecom operators to provide telephony services with security-enhanced capabilities in the modern complex networks.

The Paradoxes 29xx Series VoIP Gateway empowers service providers delivering carrier-class IP Centrex service over a Total-IP NGN / 3GPP IMS infrastructure in a more secured way. With SRTP (Secured Real-Time Protocol) and HTTPS-enabled features, the voice transmission is secured with better protection against the interferences on the Internet.

## Key Feature

- SIP (RFC-3261), MGCP 1.0/0.1/NCS1.0, MEGACO (H.248)
- Real-time Control Protocol (RFC-1889) & RTCP
- 3GPP SIP supported
- Selectable in SIP, MGCP and MEGACO protocol
- SRTP advanced security features
- Support 3GPP SIP features
- Long reach up to 5 Km
- GR-909 Line test function
- Auto Provision feature with encryption
- Dual WAN-links for protection (only for 2916/2924/2932)
- USB port for redundant WAN backup through wireless
- 3G Dongle (only for 2916/2924/2932)
- T.30 and T.38 compliant
- Line reversal and metering tone (12K/16KHz)
- Ethernet switch function with QoS and VLAN
- Advanced calling features, 3-Way Conference with/without media server, call parking and more
- WEB GUI for ease of configuration
- SNMP and TR-069 supported
- IPv4/IPv6 support



5 km long cable



29XX Series

Dual WAN



SIP Server

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TECHNICAL SPECIFICATIONS	
<b>Physical Interfaces</b>	
<ul style="list-style-type: none"><li>8/16/24/32FXS,FXO channels</li><li>1 WAN, 4 LAN ports (Dual WAN protection link)</li><li>USB Port for 3G Link</li><li>Telco Connector</li></ul>	
<b>VoIP Specifications</b>	
<ul style="list-style-type: none"><li>SIP (RFC-3261), MGCP 1.0/0.1/NCS1.0, MEGACO (H.248)</li><li>Real-time Control Protocol (RFC-1889) &amp; RTP</li><li>3GPP SIP supported</li><li>G.711(a/u law), G.723.1, G.726, G.729 a/b</li><li>Voice Activity Detection (VAD)</li><li>Silence Suppression</li><li>Confirm Noise Generation (CNG)</li><li>Adaptive Jitter Buffer</li><li>Echo Cancellation (ITU G.165&amp;G.168)</li><li>Packet Loss Compensation</li><li>Adjustable Gain Control</li><li>RTP filter</li><li>In-Band DTMF, Out of Band DTMF Relay (RFC-2833)</li><li>Pulse or DTMF dialing</li><li>CLID: FSK-Bellcore 101/102, FSK-ETSI, DTMF, Blocking, Calling Name &amp; Data, POTS</li><li>DTMF Tone Detection &amp; Generation</li><li>Modem Relay</li><li>Priority Reversal Detection (FXO) &amp; Priority Reversal Generation (FXS) PSTN Cadence</li><li>Metering Signaling Generation for Coin Phone(FXS)*</li><li>GR-909 Line test function</li></ul>	<ul style="list-style-type: none"><li>Interactive Voice Response (IVR)</li><li>Ring Priority (Hunting, Simultaneous, Sequential)</li><li>Call Interception</li><li>Outbound Proxy Support</li><li>Wildcard Register (By Group) / Line Register (By Port)</li><li>Soft-switch Backup Mechanism Support</li><li>Speed Dial*</li><li>Advanced Digit-Map</li><li>Manipulation Dialing</li><li>Video Message Waiting Indication (VMWI)</li><li>Inner Dialing support (MGCP/MEGACO)</li><li>Max. Concurrent Call Limitation: Summary/Incoming/Outgoing</li></ul>
<b>Network Features</b>	<b>Configuration and Management</b>
<ul style="list-style-type: none"><li>WAN: Static IP, PPPoE, DHCP/BootP Client</li><li>LAN: Bridge / Router</li><li>Static Routing Table</li><li>NAT Pass Through, STUN, uPnP</li><li>Static NAT/NAPT Mapping</li><li>DHCP Server</li><li>DNS/DDNS</li><li>IPv4/IPv6</li></ul>	<ul style="list-style-type: none"><li>Console, Telnet, WEB (HTTP/HTTPS)</li><li>Configuration Backup with Encryption</li><li>Remote Firmware Upgrade (HTTP/TFTP/HTTPS)</li><li>SNMP v1/v2</li><li>Auto Provision (HTTP/TFTP)</li><li>TR-069</li><li>System Log / Call Log</li><li>UPnP service*</li><li>SIP Authentication: MD5</li><li>Media: Security RTP</li><li>WEB interface: HTTPS</li><li>DoS prevention</li><li>MGCP authentication: DH Key Agreement &amp; MD5 Encryption</li><li>Control: TLS*, SIPS*, IPsec*</li><li>Port-Based VLAN/ 802.1Q VLAN-tagging</li><li>DSCP/IP Precedence</li><li>Guarantee VoIP Bandwidth</li></ul>
<b>Call Features</b>	<b>Compatibility</b>
<ul style="list-style-type: none"><li>3 IPs/VLANs for Management/Voice Signaling/Voice traffic*</li><li>Call Hold, Waiting, Transfer, Forward, Return &amp; Park</li><li>3-Way Conference w/wo Media Server</li><li>Configurable FLASH-HOOK Timing</li><li>DID (Direct Inward Dialing in FXO), DOD (Direct Outward Dialing in FXO)</li><li>Internal Phone Book (SIP)</li><li>Hot/Warm Line</li><li>Deny Second Stage Dialing (FXO)</li><li>E.164 supported</li></ul>	<ul style="list-style-type: none"><li>Elastix ,Asterisk</li><li>Huawei,Alcatel,Nuera,Verso,Thomsom,UT starcom,ZTE,cisco</li></ul>
	<b>General specifications</b>
	<b>Dimension</b> <ul style="list-style-type: none"><li>2908: 245(W) x 200(D) x 60(H) mm</li><li>2916/2924/2932: 442(W) x 287(D) x 44(H) mm</li></ul> <b>Power</b> <ul style="list-style-type: none"><li>2908: External AC/DC power adaptor</li><li>2916/2924/2932: Built-in AC or DC power</li><li>AC 110V ~ 240V, 50 ~ 60Hz</li><li>DC -36V ~ -72V</li></ul> <b>Operating Environment</b> <ul style="list-style-type: none"><li>Operational: 0°C ~ 50°C</li><li>Storage: -10°C ~ 70°C</li><li>Humidity: 10% ~ 90% (non-condensing)</li></ul>

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