FXS-FXO



VOIP MEDIA GATEWAY

- **Cost Efficiency:** By leveraging existing analog devices, migrate to VoIP networks without the need for expensive equipment upgrades.
- **Seamless Integration:** CIP-5000 Series Media gateway facilitates the integration of legacy analog devices with modern IP-based telecommunication systems, ensuring interoperability and continuity of service.
- **Flexibility and Scalability:** FXS-FXO gateways come in various port combinations, allowing businesses to scale their telecommunication infrastructure according to their telephony infra requirement.
- **Enhanced Productivity:** Advanced call management features improve productivity by enabling efficient call routing and handling.
- **Reliability:** Built-in failover mechanisms ensure uninterrupted communication even in the event of network failures or outages.
- **Simplified Management:** Intuitive management interfaces streamline configuration, monitoring, and troubleshooting tasks, reducing the burden on IT staff.

Applications:-

VoIP Service Providers:

Service providers, ISP/ITSPs can deploy CIP-5000 Series FXS-FXO media gateways to offer VoIP services to customers with existing analog equipment, expanding their market reach.

Remote/Branch Offices:

Businesses can use IAD FXS-FXO gateways to integrate analog phones, fax machines, and other devices into their IP-based telephony systems. Additionally, IAD gateways enable seamless communication between remote or branch offices and the central VoIP network, extending the benefits of VoIP to distributed locations

FXS

Caller ID: DTMF/FSK, DTMF/PULSE, CLI Presentation, Cable Length: 2-5KM, Reversed Polarity, Color Ring-back Tone, Hotline, T.38 Fax, Tx-Rx Gain, Loop Impedance - 600 Ohm, Hook Flash Detection, MWI

FXO

Caller ID- Before Ring, Polarity Reversal, after ring Signaling - FXS, DTMF Tx Gain, Rx Gain, Port Group Busy Tone.

Telephony Features

Speed Dial, Self-survival, Blind Transfer, Attended Transfer, Three-way Calling, In/Out call Route, Call Hold, CDR Custom MOH, Time Profile etc.

Protocol

SIP V2 (RFC 3261, 3262, 3263, 3264), Session Timer (RFC4028), SDP (RFC2327), STUN (RFC 3489), RTP/RTCP (RFC1889 and RFC 1890), SIP URI Lookup (RFC2915), ARP/RARP (RFC 826/903), SNTP (RFC 2030), DNS/DNS SRV (RFC1706 & RFC2782), NAT/NAPT Router function DTMF (RFC 2833)- In-band/out band, SIP INFO/NOTIFY, SIP proxy redundancy.

Legacy System Integration:

Industries with legacy telecommunication systems, such as healthcare and hospitality, can modernize their infrastructure gradually using IAD gateways, without disrupting existing operations.

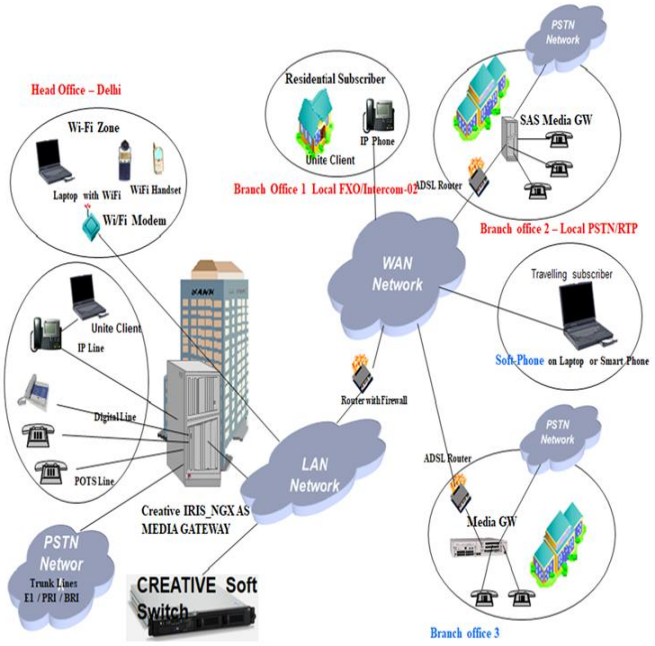
Physical Interface

Creative

CIP-5000 Series FXS-FXO VoIP Gateway

Ethernet - 4 LAN/WAN, SFP 1x1G

Configuration	FXO	FXS	Interface
08 FXS	--	08	RJ45
16 FXS	--	16	RJ45
24 FXS	--	24	RJ45
32 FXS	--	32	RJ45
04 FXO 04 FXS	04	04	RJ45
04 FXO 12 FXS	04	12	RJ45
04 FXO 20 FXS	04	20	RJ45
04 FXO 28 FXS	04	28	RJ45
08 FXO	08	--	RJ45
08 FXO 08 FXS	08	08	RJ45
08 FXO 16 FXS	08	16	RJ45
08 FXO 24 FXS	08	24	RJ45
16 FXO	16	--	RJ45
16 FXO 08 FXS	16	08	RJ45
16 FXO 16 FXS	16	16	RJ45
32 FXO	32	--	RJ45



Audio Codecs

G.711A/U law, G.729A/B, AMR, G.726, iLBC, G.723, Opus, G.722.

Silence, Suppression Comfort Noise Generation (CNG) Voice Activity Detection (VAD) Echo Cancellation (G.168), with up to 128ms Adaptive (Dynamic) Jitter Buffer Programmable Gain Control T.38/Pass-through

Networking

IPv4/IPv6, UPD, TCP, DHCP Client Static/Dynamic IP, DHCP Server, FTP, TFTP, PPPoE, ARP, RARP, NAT Ping, NTP, SNTP, HTTP/HTTPS, ICMP, OpenVPN, N2N-V2 VPN, 802.1 p/Q, SSH, DNS VLAN, Telnet, IP conflict detection

Debug/Troubleshooting

Port Monitor, Ethernet Capture, Ping, Tracert, NS lookup, Pcap, system log, network monitor.

Security

SRTP, Firewall ACL, TLS, NAT, Ping block, HTTPS, QOS SIP auto defense, Web auto defense, Open VPN, N2N VPN.

Management

Firmware Backup-Restore, Web Management Interface, IVR-driven Feature codes, SNTP Time Synchronization, System Log

Power & Environment

Power: 230V AC, 48V DC

Operation Temperature: 0~60 Degree C, Storage Temperature: -20~ 80 Degree C

Relative Humidity: 10%~90% No Condensing

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