Techroutes NETWORK

AG3100-24S

FXS VoIP Gateway



DATASHEET

VOIP

Product Overview

Techroutes AG3100-24S VoIP Access Gateway provides a cost-effective and seamless migration path from traditional telephony to modern VoIP communication. It enables enterprises to adopt IP-based telephony without replacing existing analog phones, fax machines, or cabling infrastructure. With integrated Gigabit routing, auto-provisioning, and TR-069 remote management, the AG3100-24S delivers a simplified, flexible, and efficient upgrade with minimal infrastructure changes. RoHS,CE,IEC 60950, FCC part 15 Class A & FCC part 15 Class B , be EN50155 ,EN50121, EN55022, EN55024, EN60950 certified.

Key Features

- 24 x FXS
- 4 x GbE ports
- Auto-provisioning
- SIP v2.0 over UDP/TCP (RFC 3261)
- Full call concurrency
- Router mode
- OpenVPN
- Multiple codecs

VoIP Features

- Voice Prompts: IP/Ext. No.
- Basic Call
- Caller ID Display
- Call Forward: Unconditional/ No Answer/Busy
- Call Transfer: Attended/Blind
- 3-Way Conf.
- DND
- Hotline
- Direct IP Dial
- Redial
- Dialing Rules
- Last Call Return
- IMS SIP Support
- Services Call Waiting,Blind Transfer,Attend Transfer,Call Forward on Busy,Call Forward on No Reply,Unconditional Call Forward,Warm/Immediately Hotline,Call Hold,Do-not-disturb, 3-Way Conference
- Call forwarding, Call hold, and busy tone, Hotline mode.

Protocols

- SIP(RFC3261) TEL URI – RFC 2806
- SDP, RTP (RFC 2833)/RTCP
- UDP/TCP/TLS , RFC 2198
- SRTP , ETC – 3GPP TS 24.629
- T.38&Fax Pass-Through
- Primary/Backup SIP Server
- Outbound Proxy Server
- Early Media
- DTMF: RFC2833/In-band/INFO
- RFC 3262,RFC 3263,RFC 3264,3265,RFC 3515,RFC 2976,RFC 3311, RFC 3892
- Session Timer RFC 4028, RFC 3891

Voice codec

- G.711U, G.711A
- G.723, G.729, G.726, G.722, iLBC,
- OPUS

Remote Management

- Firmware Upgrade
- SNMP
- TR-069
- Syslog

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Physical Interface

- WAN 10/100/1000M, RJ45×1
- LAN 10/100/1000M, RJ45x3
- 24×FXS LEDs
- RJ11×24
- RST×1
- USB2.0×1
- Console×1
- SFP Slot×1 (Optional)

FXS Spec

- Interface: RJ11
- Dialing: DTMF/Pulse
- CID: DTMF/SFSK/MFSK
- MWI: HV Lighting/FSK/Polarity Rev.
- Polarity Rev. Signal: Yes
- Nat. Tone Std.: Supported
- Port Adj.: Voltage, Current, Ringing
- Gain Adj.: Mic/Speaker
- Tx Type 2: Yes
- Timeout Config: Multiple
- Wire Length: 5 km(10 km opt.)
- NAT – RFC 3581
- Network protocols – TCP/UDP

Voice QoS

- Echo Cancellation
- VAD/CNG
- Jitter Buffer
- PLC
- Gain Control

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Management

- Web UI: HTTP/HTTPS
- SSH/Console Access
- Config Import/Export
- Reset/Reboot/ Factory reset
- PnP
- Firmware Upgrade
- System Debug/Packet Capture
- Diagnostics
- Ping/Tracert
- Real-Time Port Status
- Local Logging
- Log Upload
- Configuration, maintenance, monitoring, and diagnostics through a web browser or centralized management software

Physical Spec

- Power: AC 100–240V/ 0.8A, 50-60 Hz
- Consumption: 7~28W
- Operating Temperature: 0°C to 45°C
- Storage Temperature: -20°C to 80°C
- Humidity: 10-90% (non-condensing)
- Dimensions: 438*236*45mm
- Net weight: 2.6kg
- Mounting: Desktop, 1U Rak Mount
- Desktop and wall-mount installation.

Network Features

- IPv4/IPv6
- IP Assignment: Static/DHCP/PPPoE/ PPP/VPNC
- VLAN Subinterface
- DHCP Server
- NAT/DNS/IGMP
- Routing: Static/Dynamic/Policy-based
- OpenVPN Support
- Switch VLAN/Trunk Port
- SIP Trunk
- NTP Client
- Bandwidth Control/QoS Policy
- Security: Firewall
- ARP Defense
- DDoS Protection
- SIP over TLS/SRTP
- DNS SRV/ A Query
- Early Media/Early Answer
- NAT: STUN, and Static/Dynamic NAT
- Network protocol :RARP,ICMP ,NAT-STUN
- Software features :Hunting Group,Web ACL,Telnet ACL,Action URL, Digitmap,Routing Rules based Prefixes,Caller/Called Number Manipulation.

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