

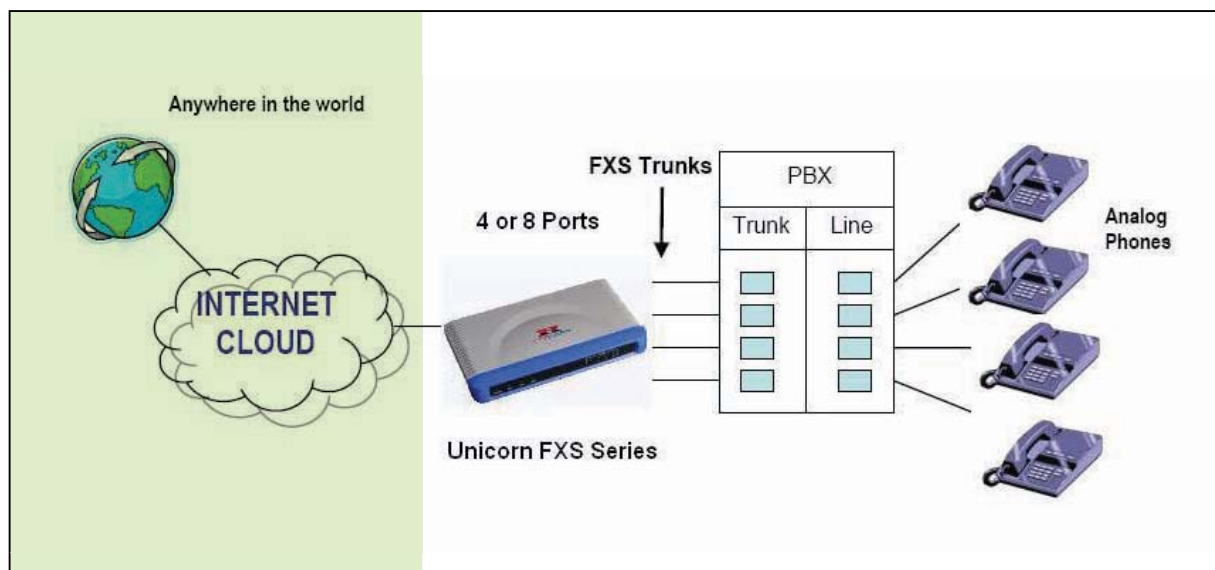
# FXS Analog Gateways



Unicorn 600x offers an easy to manage and easy to configure IP communication solution for any business with virtual and/or branch locations. Unicorn 600x supports popular voice codecs and is designed for full SIP compatibility and interoperability with 3rd party SIP providers, thus enabling you to fully leverage the benefits of VoIP technology, integrate a traditional phone system into a VoIP network, and efficiently manage communication cost.

## Features

- 4 or 8 FXS ports with PSTN lifeline
- Two RJ-45 ports (switched or routed)
- Multiple SIP accounts & profiles (4 or 8 accounts / choice of 2 profiles per account)
- Voice Codecs: G711(a/μ), G723.1A, G726 (ADPCM with 16/24/32/40 bit rates), G729 A/B
- T.30 and T.38 Fax
- G.168 Echo Cancellation



## Technical Specifications

|  | Unicorn6004   | Unicorn6008      |
|--|---|------------------|
| <b>Telephone Interfaces</b>                      | 4 RJ11 FXS Ports  | 8 RJ11 FXS Ports |
| <b>Network Interfaces</b>                        | 10/100 Mbps, Dual RJ45 Ports  |                  |
| <b>Lifeline Interface</b>                        | 1 RJ11, PSTN Failover Line  |                  |
| <b>Power Interface</b>                           | External Adapter with 100V-240V AC Input,50/60 Hz,9V,2A DC Output                                     |                  |
| <b>Multiple SIP Server Profiles and Accounts</b> | Up to 2 Distinct SIP Server Profiles Per System and Independent SIP Account Per Ports                 |                  |
| <b>VoIP protocols</b>                            | SIPv2 - Session Initiation Protocol (RFC 3261, 3262, 3263),   |                  |
|  | SDP - Session Description Protocol (RFC 2327)   |                  |
|  | RTP - Real-Time Protocol (RFC 1889, 1890)   |                  |
|  | RTCP - Real-Time Control Protocol (RFC 1889)  |                  |
|  | RFC 2833 X-NSE Tone Events for SIP/RTP  |                  |
| <b>Network Protocols</b>                         | RFC 2833 AVT Tone Events for SIP/RTP  |                  |
|  | IPv4 - Internet Protocol Version 4 (RFC 791)  |                  |
|  | TCP - Transmission Control Protocol (RFC 793)   |                  |
|  | UDP - User Datagram Protocol (RFC 768)  |                  |
|  | ICMP - Internet Control Message Protocol (RFC 792)  |                  |
|  | RARP - Reverse Address Resolution Protocol (RFC 903)  |                  |
|  | ARP - Address Resolution Protocol (RFC 826)   |                  |
|  | DNS- Domain Name Server   |                  |
|  | DHCP - Dynamic Host Control Protocol (RFC 2131)   |                  |
|  | NTP - Network Time Protocol (RFC 1305)  |                  |
|  | SNTP - Simple Network Time Protocol (RFC 2030)  |                  |
|  | STUN - Simple Traversal of UDP over NATs (RFC 3789)   |                  |
|  | HTTP - HyperText Transfer Protocol  |                  |
|  | TFTP - Trivial File Transfer Protocol (RFC 1350)  |                  |
|  | UPnP - Understanding Universal Plug and Play  |                  |
| <b>NAT/Firewall Support</b>                      | Router  |                  |
|  | NAT Firewall  |                  |
|  | Port Forwarding   |                  |
|  | DHCP Client/Server  |                  |
| <b>Voice Codecs</b>                              | PPPoE - Point to Point Protocol over Ethernet (RFC 2516)  |                  |
|  | G.711 - Pulse Code Modulation(a law and u law)  |                  |
|  | G.723.1 - 6.4 and 5.3 kbps ACELP/MP-MLQ   |                  |
|  | G.726 - 16, 24, 32 and 40 kbps ADPCM  |                  |
|  | G.729A - 8 kbps CS-ACELP  |                  |
| <b>Line-echo cancellation</b>                    | G.729B - Silence Detection/Comfort Noise Generation   |                  |
|  | G.168 Line Echo Cancellation  |                  |
|  | Echo Canceller for Each Port  |                  |
|  | 16 ms ~ 64ms Echo Length  |                  |
|  | Nonlinear Echo Suppression  |                  |
| <b>Fax Support</b>                               | Double-Talk Detection   |                  |
|  | G.711 Fax Pass-Through  |                  |
| <b>Telephony</b>                                 | T.38 - Real-Time Fax Over IP  |                  |
|  | Q.24 DTMF Generation  |                  |
|  | Q.24 DTMF Detection   |                  |
|  | Caller ID Generation: FSK, DTMF, Bellcore, NTT  |                  |
|  | Caller ID Detection: FSK, DTMF, Bellcore, NTT   |                  |
| <b>Quality of Service</b>                        | 3-way Conference Calling with Local Mixing  |                  |
|  | Layer 2 Class-of-Service (CoS) Tagging (802.1P)   |                  |
|  | Layer 2 (802.1Q VLAN)   |                  |
| <b>Call Features</b>                             | Layer 3 Type-of-Service (ToS) Tagging (RFC 791/1349)  |                  |
| <b>Provisioning</b>                              | Caller ID Display or Block, Call Waiting, Flash, Call Transfer, Hold, Forward, Mute, 3-Way Conference |                  |
| <b>Compliance</b>                                | Web Interface or Via Secure Center Configure File for Mas Deployment                                  |                  |
|  | Remote Software Upgrade(via HTTP/TFTP)  |                  |
|  | FCC/CE  |                  |