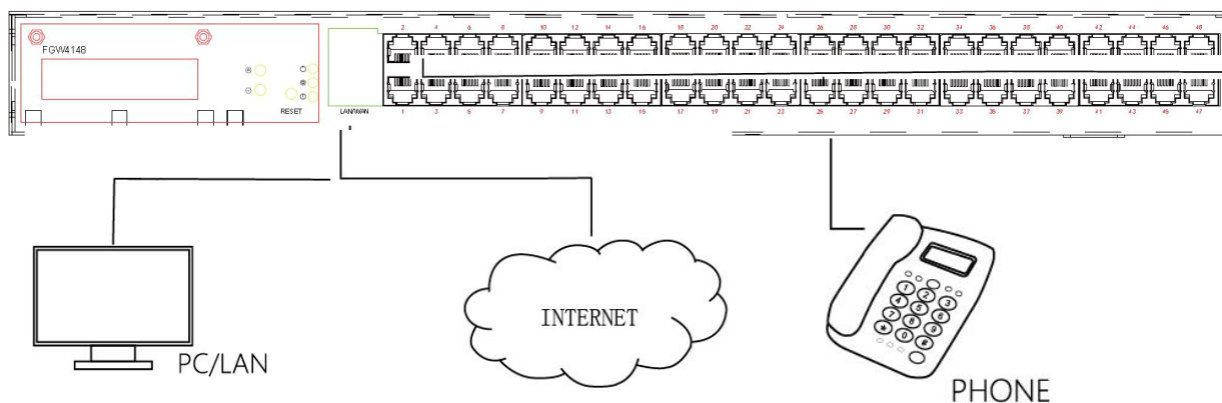# 16/24/32/48 FXS VoIP Adapter FGW4148

## Feature Keys

• 10/100/1000Mbps Ethernet

• 16/24/32/48 FXS Port

• Auto-provisioning- TFTP/HTTP/HTTPS

• Supports T.38 and T.30 Real-time Fax (G.711)



Hardware Interface

## Overview

FGW4148 which has 16/24/32/48 FXS ports, one LAN port and one WAN port, is one of the most popular VoIP adapter researched and produced by Flyingvoice. This product can not only provide 16/24/32/48 SIP lines for users to make calls, but also it is a wire-speed NAT router, make you enjoy easy network atmosphere. What's more, FGW4148 support T.38 real time FAX and T.30 FAX with G.711.

FGW4148 is a stand-alone device, which requires no PC to make Internet calls. This adapter guarantees clear and reliable voice quality on Internet, which is fully compatible with SIP industry standard and able to interoperate with many other SIP devices and software on the market. The FGW4148 is VoIP adapter products in Flyingvoice, which enables customers to register to different sip proxy server, IP PBX and establish up to many concurrent VoIP calls for more flexibility in the voice communication.the excellent voice quality, packed feature functionality and best-in-class price-performance point enable consumers to maximize the power of IP voice and data connectivity. It features 16/24/32/48 FXS telephone ports, the maximum cable lenght is more than 3000m, TR069 CPE management & monitoring protocols.

# Technical Parameters

| | |
|---|---|
| Power | AC Input: 100~245V, 50~60Hz |
| | Power Consumption：24W（FGW4148-16）/ 31W（FGW4148-24）/ 38W（FGW4148-32）/ 45W（FGW4148-48）<br>1 FAN |
| Operating System | • Linux 2.6.36 |
| I/O Interfaces | • 1 RJ-45 for WAN port (Ethernet 10/100/1000Mbs) |
| | • 1 RJ-45 for LAN port (Ethernet 10/100/1000Mbs) |
| | • 16/24/32/48 RJ-11 for FXS ports |
| Environmental | • Operation Temperature: 0~50 Degree C |
| | • Storage Temperature: -25~ 85 Degree C |
| | • Relative Humidity: 10%~90% No Condensing |
| Audio Codec | • G.711 (A/u) |
| | • G.729A/AB |
| | • G.726-32 |
| | • OPUS standard |
| | • Adaptive Jitter Buffer Management |
| | • Voice Activity Detection |
| | • Hook Flash |
| | • Comfort Noise Generation |
| | • Echo Cancellation |
| | • T.30 FAX with G.711 |
| | • Real time FAX over IP via T.38 (up to 14.4Kbps Pass-through) |
| Management | • Firmware Upgradeable |
| | • Web Management Interface |
| | • Telnet |
| | • IVR-driven Management Interface |
| | • Local and Remote Syslog (RFC3164) |
| | • Auto Provisioning |
| | • SNTP Time Synchronization |
| | • Multi User Level |
| | • Support IPv4, IPv6 |
| | • SNMPv1/v2/v3 |
| | • TR069 |
| | • Support Flying FCMS Cloud Management |
| Protocols | • SIP V2 (RFC3261, RFC3262, RFC3263, RFC3264, RFC3265, RFC3515, RFC3891, RFC3892, 3GPP, IMS) |
| | • Backward Compatible with RFC2543 |
| | • Session Timer (RFC4028) |
| | • SDP (RFC2327) |
| | • RTP/RTCP (RFC1889 and RFC1890) |
| | • UDP/TCP/TLS |
| | • Support Dual Stack (IPv4 and IPv6) |
| | • NAPTR for SIP URI Lookup (RFC2915) |
| | • STUN (RFC 3489) |
| | • ARP/RARP (RFC 826/903) |
| | • SNTP (RFC 2030) |

- DHCP/IPoE/PPPoE
- PPTP/L2TP VPN/OpenVPN
- HTTP Server for Web Management
- TFTP/HTTP/HTTPS for Auto Provisioning
- DNS/DNS SRV (RFC1706 and RFC 2782)
- VLAN mode: Voice/ Management VLANs, support VLAN 802.1p/ 802.1Q

| | |
|---|---|
| Applications | - NAT/NAPT Router function<br>- MAC Address Cloning<br>- DHCP Server<br>- PPTP/L2TP VPN<br>- PPPoE<br>- SIP proxy redundancy<br>- Outbound proxy<br>- Dynamic via DNS SRV, A records<br>- NAT Traversal by STUN<br>- DMZ<br>- QoS with Layer 3, Traffic shaping<br>- DHCP Client and DHCP Server<br>- IP conflict detection |
| Call Features | - 3-Way Conference<br>- Music on hold<br>- Dial mode: DTMF and Pulse<br>- DTMF mode: Signal, In-band, RFC2833 and SIP INFO<br>- Call Hold<br>- Call Forwarding<br>- Call Mute<br>- Call Transfer<br>- Call Waiting<br>- Speed Dial<br>- Caller ID: DTMF/FSK and CWCID<br>- Hotline<br>- Dial Plan<br>- Black List<br>- Call Log |

# Place Order

| Product Number | Description |
|---|---|
| FGW4148-16S | 1 WAN(GE)+1 LAN(GE)+16 FXS+1 RS232 |
| FGW4148-24S | 1 WAN(GE)+1 LAN(GE)+24 FXS+1 RS232 |
| FGW4148-32S | 1 WAN(GE)+1 LAN(GE)+32 FXS+1 RS232 |
| FGW4148-48S | 1 WAN(GE)+1 LAN(GE)+48 FXS+1 RS232 |