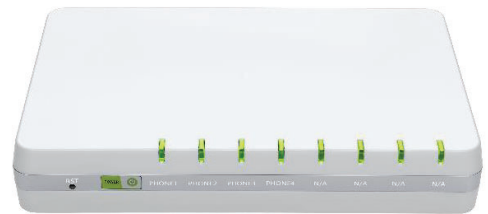# CCL

4 FXS Ports VoIP Phone Adapter

CCL 4 Port FXS Gateway is a portable, high-performance and easy-to-manage VoIP adapter. It provides a more convenient way to allow your analog telephones to connect to a VoIP system. And the gateway supports advanced functions like 3-way conference, call waiting and call forwarding, improving collaboration and allowing for maximum productivity. It is an ideal choice for SOHO and small businesses.

Key Features and Benefits

☑ 4 FXS Ports
It comes with 4 FXS ports that allow you to connect analog phones, fax machines, POS machines to the VoIP system, providing flexibility for office workers.

🖨 Fax support
It supports T.38 over SRTP, T.30 and G.711 fax standards, as well as Email to Fax and Fax to Email, which you can maximize the performance of the fax.

🎤 Good Voice Quality
The gateway supports smart Quality of Service (QoS) to ensure stable VoIP calls, and it supports 3-way conference that allows you to talk with two people at the same time, improving call experience.

⊞ Easy Management
The gateway not only supports Auto-Provisioning and Auto-upgrade via FACS and TR069, but can be managed remotely by internal web servers, SNMP, and HTTP/TFTP/FTP, bringing great convenience.

🛡 High Security and Compatibility
Based on SIP V2, it is compatible with most service providers. Moreover, your conversations are well protected by configuration files with AES, SRTP and TLS call encryption, etc.

- 4 FXS Ports & 4 SIP Lines

- 2 x 10/100/1000 Mbps Ethernet port

- 3-way conference

- Support T.38, T.30 fax protocol

- Support NAT

- Support VPN (PPTP, L2TP)

Specifications

Interface
> 2 RJ-45 for 10/100/1000 Ethernet Ports
> 4×RJ11 for FXS Port
> 1x Power Port

Operating System
> Linux 2.6.36

Call Features
> 3-way Conference
> Music on hold
> Dial mode: DTMF and Pulse
> DTMF mode: In-band, RFC2833 and SIP INFO
> Call Hold
> Call Forwarding
> Call Mute
> Call Transfer
> Call Waiting
> Speed Dial
> Caller ID (Bellcore/DTMF/FSK) and CWCID
> Hotline
> Real time fax over IP via T.38
> T.30 FAX with G.711
> Dial Plan
> Black List
> Call Log

Audio Codec
> G.711(A/u)
> G.729A/AB
> G726-32
> OPUS standard
> T.30 FAX with G.711
> Real time FAX over IP via T.38 (up to 14.4Kbps Pass-through)
> Adaptive Jitter Buffer
> Voice Activity Detection
> Hook Flash
> Comfort Noise Generation
> Echo Cancellation

Applications
> NAT/NAPT Router function
> MAC Address Cloning
> DHCP Server
> PPTP/L2TP VPN
> PPPoE
> SIP proxy redundancy
> Dynamic via DNS SRV, A records
> NAT Traversal by STUN
> DMZ
> QoS with Layer 3, Traffic shaping
> DHCP Client and DHCP Server
> IP conflict detection

Management
> Firmware Upgrade
> Web Management Interface
> IVR Management Interface
> Local and Remote Syslog (RFC3164)
> Auto Provisioning
> SNTP Time Synchronization
> Multi User Level
> Support IPv4, IPv6
> SNMPv1/v2/v3
> TR069
> FCMS cloud server

Power
> AC/DC Adapter
- AC Input: 100~245V, 50~60Hz
- DC Output: 12V, 2A

Others
> Color: White
> Wall mountable
> Dimension（L×W×H）:
- 180mm(L)x110mm(W)x30mm(H)
> Weight: 275 g
> Storage temperature: -25~ 85°C
> Operation temperature: 0~50°C
> Relative humidity: 10%~90% (No Condensing)

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
> IPv4/ IPv6
> 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
> HTTP Server for Web Management
> TFTP/HTTP/HTTPS for Auto Provisioning
> Message Waiting Indicator (RFC3842)
> DHCP Option Codes for SIP (RFC3361)
> DNS/DNS SRV (RFC1706 and RFC 2782)
> VLAN mode: Voice/ Management VLANs, support VLAN 802.1p/ 802.1Q

Package Contents
> 1×Gateway
> 1×Quick installation guide
> 1×RJ45 cable
> 1×RJ11 cable
> 1×Power Adapter- Quick start guide
> Power adapter (Optional)
> Qty/CTN: 10 PCS
> N.W/CTN: 6.0 kg
> G.W/CTN: 6.62 kg
> Gift box size: 230mm x 190mm x 70mm
> Carton size: 400mm x 380mm x 250mm

PHONE4 PHONE3 PHONE2 PHONE1 LAN WAN POWER

Analog telephone   PC   PBX/Router   Power Adapter