

FXS Analog VoIP Gateway

The UB40-312S FXS analog gateway is multi-functional voice gateway that provides seamless connectivity with analog phones, fax machine or analog PBXs to VoIP gateway. The overall frame of UB40-312S is compact and structured, supporting RJ21 interface standards and up to 312 FXS voice interfaces via user boards plugging at a size of 3U. In addition, UB40-312S provides high-performance hardware solution with good voice/fax processing capability. It is able to provide efficient and high-quality IP voice services for service provider, enterprises, community residents, and corporate telephone systems.

UB40-312S supports standard SIP and RTP protocols and is compatible with multiple well-known platforms, for example, compatible with BroadSoft. It also works as extensions with various IPPBX products based on Asterisk and FreeSWITCH, and is also perfectly compatible with IMS/NGN softswitch platforms and call center systems. In addition, customers can build an enterprise branch communication network by using the UB40-312S to achieve interoperability between branches, which can provide an efficient, stable, and cost-effective voice communication solution for large enterprises.



Model:

UB40-312S



312 FXS



NGN/IMS



3-Way Conference



T.38/T.30



TLS/SRTP



VLAN

Highlights

- High density gateway, 24 to 312 FXS ports in 3U size via user boards plugging
- Support IPv4 and IPv6
- 5 km Line Length(MAX)
- Support SNMP and TR069
- Multiple codecs: G.711A/U, G.723.1, G.729A/B and iLBC
- Support Asterisk and FreeSWITCH platforms, and compatible with BroadSoft
- Fully compatible with leading IMS/NGN, SIP based IP telephony system

Datasheet

Physical Interfaces

Hardware 1*MCU Boards 13*User Boards

FXS Boards

RJ21: One user board supports 24 FXS ports, up to 13 user boards

MCU Board

Network Interfaces:

2* 10/1000 Base-T

1* 10/100 Base-T

Console: 1* RS232, 115200bps

Call Features

Digit map

IMPU

CDR

Action URL

Voicemail

Custom IVR

Call Waiting

Call Holding

Do-not-disturb

Blind Transfer

Attend Transfer

Call Forward on Busy

Call Forward on No Reply

Ringing Group, Hotline

3-way Conference

Early Media/Early Answer

Abbreviated Dialing

Access and Peer Mode

PBX IVR

Unconditional Call Forward

SIP registration to different servers

Flexible Call Routing Policy

Caller/Called Number Manipulation

Voice & FAX

Recording

T.38/Pass-through

Modem/POS

Silence Suppression

Bandwidth Optimization

Comfort Noise Generation(CNG)

Voice Activity Detection(VAD)

Packet Loss Concealment

Adaptive (Dynamic) Jitter Buffer

Programmable Gain Control

G.711A/U law, G.723.1, G.729A/B, G.726, iLBC, AMR,

AMR-GSM

DTMF mode: Signal/RFC2833/INBAND

Echo Cancellation(G.168), with up to 128ms

Maintenance

Ping/Tracert Test

Network Capture

Outward Test(GR909)

SNMP, TR069, Provision

NTP/Daylight Saving Time

IVR local Maintenance

RADIUS Authentication Management

Syslog: Debug, Info, Error, Warning, Notice
Configuration Backup/Restore

Firmware Upgrade via

HTTP/HTTPS/TFTP/FTP/HTTP

Physical Features

Power Supply: 100-240VAC, 50/60Hz

Dual power supplies

Operating Temperature: 0°C ~ 45°C

Storage Temperature: -20°C ~ 80°C

Humidity: 10%-90% Non-Condensing

Dimensions(W/D/H): 440*360*132mm(3U)

Consumption (Idle/With full channel used): 150W/400W

Unit Weight: 12 kg

Compliance: MTCTE

FXS

Connector: RJ21

Max Line Length: 5 km

Reversed Polarity

Pulse: 10 and 20 PPS

Dial Mode: DTMF and Pulse

Programmable Call Progress Tone

Caller ID: DTMF/FSK CLI Presentation

Security

QoS, TLS, SRTP

Web ACL/SSH ACL

RADIUS Authentication

Certification Management

Service Network Port:

Isolated/BOND/Bridge Mode

Signaling/Voice Encryption

VoIP

Protocols:

SIP v2.0 (UDP/TCP), RFC3261

SDP(RFC2327), RTP(RFC2833), RFC3262,
RFC3263, RFC3264, RFC3265, RFC3515,
RFC2976, RFC3311

RTP/RTCP, RFC2198, RFC1889

IPv4 and IPv6

Outbound Proxy

Master/Slave Server

RFC2806 TEL URI

RFC3581 NAT, rport

VLAN 802.1P/802.1Q

RFC4028 Session Timer

DNS SRV/A Query/NATPR Query

NAT:STUN, Static/Dynamic NAT