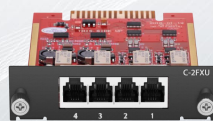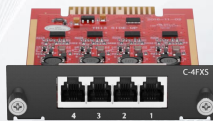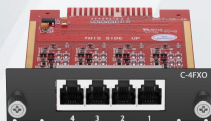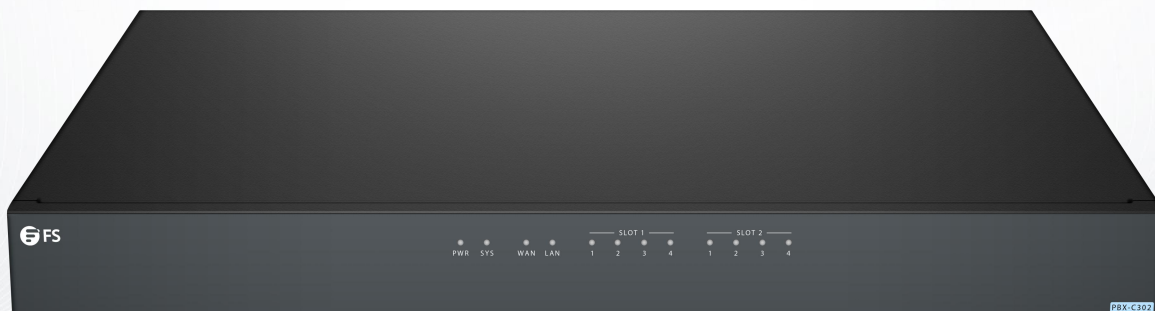FS

IP PBX: PBX-C302
Telephony Cards: C-4 FXS, C-4 FXO, C-2 FXU, C-DTU
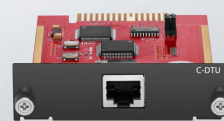
Overview

PBX-C302 provide a centralized solution for the communication needs of businesses.

It supports 200 extensions and 60 concurrent calls integrated voice, video, fax, conference, recording etc. It supports PSTN/GSM/WCDMA trunks, ISDNE1/T1 and BRI digital trunk lines. Through its innovative software features, it allows for enterprise-level unified VoIP communications.

It allows businesses to build powerful and scalable unified communication and collaboration solutions.

Benefits

• 200 Extensions & 60 Concurrent Calls

• 150 Hours Call Recording & Voicemail

• Support Multi-level IVR

• Intrusion Auto-detection & Prevention

for Security

• Support VPN, Static Routing, DHCP,

DDNS, Virtual IP, VLAN etc.

ADVANTAGES

IP PBX-C302

Quick Setup Wizard	Quick Setup Wizard allows speedy initial configuration of C-302 system.The wizard includes all essential configuration steps in an easy to use and intuitive web based interface.
SIP Proxy Services	No fixed public IP, third-party DDNS services and VPN router required. It's easy to eatablish a Remote extension and remote branch office phone system integration.
Endpoints Provisioning	Quick and simple deployment of endpoint devices using PNP and Quick Register Code.
Billing	With built-in billing system, no third-party billing software required. Prepaid/post paid billing, billing credit, flexible billing rates and billing statistics features are all supported.
Hot Standby	Two C302 servers run simultaneously, upon failure of one of the servers, the other server will take over all IP phone services. By using Hot Standby, it guarantees high availability of the enterprise phone services.
Web Conference Manager	By using web conference manager, it will be much easier for you to start and manage a conference from the Web interface. Invite participants, mute/unmute participants, kick out participants can be done by a few mouse clicks.

CHARACTERISTICS

IP PBX-C302	
Hardware Specifications	
Telephony Interfaces	8xFXO/FXS/GSM/WCDMA, 2xE1/T1, 4xBRI Interfaces
CPU	2.41GHz Dual-core Intel Processor
RAM	2GB DDR3L
USB (Extended Storage Supported)	2 (Supported File System: FAT16, FAT32, EXTFAT, NTFS, EXT3, EXT4)
Ethernet Interface	WAN, LAN (10/100/1000Mbps)
Power	AC100-240V, Max.1.5A
Dimension	440x222x44mm(19''1U industry standard rack-mountable chassis)
Software Specifications	
System Capacity	200 Extensions
	60 Concurrent Calls
	60 Conference Attendees
	150hrs Recording/Voicemail (Internal Storage)
	1-12 EX16S Deployment (Recommended)
	Unlimited IVR Levels
	100 SIP/IMS Trunks (Max)
	500000 CDR History
	10000 Phonebook Contacts
	50 Paging Members

CHARISTERISTIC

IP PBX-C302	
Protocols & Codecs	
SIP (RFC3261), IAX2	Support
DTMF	(RFC4733, SIPINFO, In-Band)
Transport Protocols	UDP, TCP, TLS, SRTP
Network Protocols	IPv4, IPv6, VLAN, DHCP, PPPoE, NTP, SNTP, TFTP, SSH, HTTPS, LDAP
Video Codecs	VP8, H.264, H.263+, H.263, H.261
Audio Codecs	Opus, G.722, G.711(a-law,u-law), G.729, G.726, GSM, SPEEX, AMR, AMR-WB
Telephony Features	
Call Queue	Support
Ring Group	Support
Call Forward	Support
Call Transfer	Support
Call Pickup	Support
Call Parking	Support
Call Waiting	Support
Speed Dial	Support
IVR (Multi-layer)	Support
Caller ID	Support
Call Spy	Support
Video Call	Support
3-way Conference	Support
Follow Me	Support
Call Back	Support
DISA	Support

CHARACTERISTICS

IP PBX-C302	
Smart DID	Support
Blacklist	Support
Voicemail	Support
Wakeup Call	Support
PIN Code	Support
Do Not Disturb	Support
Switch Call	Support
Time Conditions	Support
Paging & Intercom	Support
One Number Stations	Support
Music on Ringback	Support
Distinctive Ringtone	Support
Auto Call Recording	Support
One Touch Recording	Support
Web Extension (WebRTC)	Support
Feature Highlights	
Quick Installation Guide	Support
Softphone APP Auto Provisioning	QR Code Scan
IP Phone Auto Provisioning	PNP, Quick Register Code
LDAP Phonebook Auto Configure	(H81, H83)

CHARACTERISTICS

IP PBX-C302	
EX16S Auto Provisioning	Support
SIP Proxy	NAT Traversal
Voicemail to Emai	Support
Fax to Email	Support
Multilingual Web UI	Support
Multilingual Voice Prompts	Support

Multi-level User Administration

Admin User	All Privileges
Operator User	Extensions, faxes, CDR, recordings, etc.
Extension User	WebRTC, recordings, voicemails, calllogs, etc.
Billing User	Support
Conference Manager	Support

Security

Firewall Based on Iptable	Support
Intrusion Auto Detection & Prevention	Support
Geo-IP	Support
IP Black / White List	Support
Extension Permit IP	Support

Network

WAN	Static IP, DHCP, PPPoE
VPN	PPTP, OpenVPN, IPSec, L2TP (Server & Client)
Static Routing	Support
DHCP (Server & Client)	Support
DDNS	Support
Virtual IP	Support
Local Domain Name Service	Support

Telephony Cards	4 FXO	4 FXS	2 FXU	DTU
Ports	4 FXO	4 FXS	2 FXO + 2 FXS	E1/T1
Interface	RJ11	RJ11	RJ11	RJ48
Connection	Trunk Lines between PBX and PSTN	Analog Telephone & FXO Interface of PBX	Offices & Stations	Network to Users
Matching IP PBX	IP PBX-C302	IP PBX-C302	IP PBX-C302	IP PBX-C302
Operation Temperature	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C	0°C ~ 40°C
Humidity	5% ~ 95% Non-Condensing	5% ~ 95% Non-Condensing	5% ~ 95% Non-Condensing	5% ~ 95% Non-Condensing
Dimensions	88.5 x 132 mm	88.5 x 132 mm	88.5 x 132 mm	88.5 x 132 mm
Ringing Detect	On-hook	--	On-hook	--
Application Terms	--	--	--	T1 in US & Canada E1 in Europe
Loop Current Detect	Off-hook	--	Off-hook	--
DC Triggering	Support	--	Support	--
Ring Generation & Ringing Trip	--	Support	Support	--
Loop Closure Detect	--	Support	Support	--
Loop Disconnect	Support	Support	Support	--
Loop Reversal	--	Support	Support	--
Loop Voltage & Current Monitoring	Support	Support	Support	--
On-hook & Off-hook Transmission	Support	Support	Support	--
Hook-flash Detect	--	Support	Support	--
DTMF Signalling	--	Support	Support	--
Programmable Audio Gain	--	Support	Support	--
On-board Power Generation	--	Support	Support	--
Loop Current	13-110mA	20mA Constant	20mA Constant	--

LED Indicates Port Status

4 FXO	Solid Red= Module loading successful Blink Red= Channel Ringing LED off= module loading failed
4 FXS	Solid Red= Module loading successful Blink Red= Channel Ringing LED off= module loading failed
2 FXU (2 FXO+2 FXS)	FXS Green LED: Solid Green= Module loading successful Blink Green= Ringing FXO Red LED: Solid Red= Module loading successful Blink Red= Ringing LED off= module loading failure
DTU (E1/ T1)	LED 1: Solid Red= Module loading succeeded Off= Module loading failed LED 2 & LED 3: L2 Solid Red/ L3 Off =CPE signaling L2 Solid Green/ L3 off= NET signaling L3 Solid Red/ L2 Off= Mfcr2 signal L3 Solid Green/ L2 Off= SS7 signaling Off= No signal LED 4: Red= Disconnected/ Alarm Green= Connected/ No alarm

Pin Assignments

4 FXO	Pin 1: Not Used Pin 2: Tip Pin 3: Ring LED 4: Not Used
4 FXS	Pin 1: Not Used Pin 2: Tip Pin 3: Ring LED 4: Not Used
2 FXU (2 FXO+2 FXS)	Pin 1: Not Used Pin 2: Tip Pin 3: Ring LED 4: Not Used
DTU (PRI: E1/T1)	The T1 line consists of 24 channels, while an E1 has 32. PRI provides a varying number of channels depending on the standards in the country of implementation. In North America and Japan it consists of 23xB (B channels(be/s). In Europe and Australia it is 30xB + 1xD on an E1 2.048 Mbit/s. One timeslot on the E1 is used for synchronization purposes and is not considered to be a B or D channel. Primary Rate Interface for large organizations with 30 bearer channels and 2xD (D channel(delta channel)) (23 64-kbit/s digital channels + 1 64-kbit/s signaling/control channel) on a T1 (1.544 Mbit (PRI)), for larger applications. Both rates include a number of B-channels and a D-channel. Each B- channel carries data, voice, and other services. The D-channel carries control and signaling information.

United Kingdom   Russia

Germany   United States

China

Singapore

Australia

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