

IP PBX-U502

Telephony Cards: 8 FXO/8 FXS/4 FXU/4 DTU



Overview

IP PBX-U502 is a new generation of large capacity unified communication. Based on powerful hardware platform, It supports 500 extensions and 60 concurrent calls integrated voice, video, fax, conference, recording etc. It provides four slots to install E1/T1 boards, FXS and FXO boards by hot-plug mode, so that it can be flexibly configured and combined according to the actual use scenarios.

IP PBX-U502 help businesses establish a convenient and efficient IP telephone system.

Benefits

- 500 Extensions & 60 Concurrent Calls
- Support Voicemail / Voice Recording
- Support Multi-level IVR
- Web GUI Configuration, Telnet Management
- Flexible Dial Rules Based on Time, Number or Source IP etc.
- Built-in VPN server/client

CHARACTERISTICS

IP PBX-U502

Hardware Specifications

Hardware

MCU Boards	2
User Board Slots	4 (E1/T1, FXS, FXO boards optional)
FXS Board	2* RJ45 with 8 FXS
FXO Board	2* RJ45 with 8 FXO
E1/T1	4* E1/T1 Ports
FXU Hybrid Board (4 FXS + 4 FXO)	2* FXU Hybrid Ports
MCU Board	
100/1000M, Base-T, RJ45	2
USB 2.0	1
Console Port	1
FXS	
Connector	RJ45
Caller ID	Bellcore Type 1&2, ETSI,BT,NTT and DTMF
Answer and Disconnect Signaling	Answer, Disconnect, Busy Tone
Polarity Reversal	Support
Hook Flash	Support
FXO	
Connector	RJ45
Caller ID	FSK, DTMF
Polarity Reversal	
Answer Delay	Support
Detection of Busy Tone	Support
Detection of No Current	Support
Auto Match of FXO Impedance	Support

CHARISTERISTIC

IP PBX-U502	
PSTN	
E1/T1 Ports	4 Max
Interface	RJ48 (120Ohm)
ISDN PRI	23B+D(T1), 30B+D(E1), NT or TEITU-T Q.921, ITU-T Q.931, Q.Sig
Signal 7/SS7	ITU-T, ANSI, ITU-CHINA MTP1/MTP2/MTP3, TUP/ISUP R2 MFC
Voice Capabilities	
VoIP Protocols	SIP over UDP/TCP/TLS, RTP/SRTP
Codecs	G.711,G.723.1, G.729A/B, G.722,G.726, OPUS
Silence Suppression	Support
Comfort Noise Generator (CNG)	Support
Voice Activity Detection (VAD)	Support
Echo Cancellation	G.168 with up to 128ms
Dynamic Jitter Buffer	Support
Adjustable Gain Control	Support
Automatic Gain Control (AGC)	Support
Call Progress Tones	Dial Tone, Ring Back Tone, Busy Tone
FAX	T.38 and Pass-through
NAT	STUN / UPnP
DTMF	RFC2833 / Signal / Inband
VPN Server / Client	Support
Maintenance	
Web GUI Configuration	Support
Telnet Management	Support
Configuration Restore / Backup	Support

CHARACTERISTICS

IP PBX-U502	
Multiple Languages Supported	Support
HTTP/TFTP/FTP Firmware Upgrade	Support
Auto Provision	Support
Syslog	Support
Ping and Tracert	Support
Traffic Statistics	TCP, UDP, RTP
Network Capture	Support
NTP	Support
Classification of Web Users' Rights	Support
HTTP & HTTPS / NATS API	Support
PBX Services	
Call Forward	Unconditional / No Answer / Busy
Call Waiting	Support
Call Holding	Support
Call Transfer	Support
Hotline	Support
Do Not Disturb	Support
3-way Conference	Support
Ring Group	Support
Call Queue	Support

CHARACTERISTICS

IP PBX-U502	
Routing Group	Support
Caller / Called Number Manipulation	Support
Routing Based on Time Period	Support
Routing Based on Caller/Called Prefixes	Support
Routing Based on Source Trunks	Support
Dial Rules	Support
Failover Routing	Support
Multi-level IVR	Support
Auto-attendant Function	Support
CDRs	Support
Voicemail	Support
Voice Recording	Support
Max SIP Extensions	800
Max Concurrent Calls	100
Paging	Support
Event Report	Support
Email Client	Support
Voicemail to Email	Support
Environmental	
Power Supply	1+1 Power Supply, 100-240VAC, 50-60 Hz
Power Consumption	50W
Operating Temperature	0 °C~ 45 °C
Storage Temperature	-20 °C ~80 °C
Humidity	10%-90% Non-Condensing
Dimensions (H×W×D)	437×345×49mm
Unit Weight	5.7 kg

Telephony Cards	U-8FXO	U-8FXS	U-4FXU	U-4DTU
Ports	8 FXO	8 FXS	4 FXO + 4 FXS	4 E1/T1
Interface	RJ45 to 4 RJ11 (Converter)	RJ45 to 4 RJ11 (Converter)	RJ45 to 4 RJ11 (Converter)	RJ48
Conections	Trunk Lines between PBX and PSTN	Analog Telephone & FXO Interface of PBX	Offices & Stations	Network to Users
Matching IP PBX	IP PBX-U502	IP PBX-U502	IP PBX-U502	IP PBX-U502
Max Power Consumption	6.61W	8.48W	7.28W	11.2W
Ring Detect	FC	--	FXO FC, FXS Uninvolved	--
Loop Current Detect	FC	FC	FC	--
DC triggering	FC	FC	FC	--
Ring Generation & Ringing Trip	--	FC	FXO Uninvolved FXS FC	--
Loop Closure Detect	--	FC	FXO Uninvolved FXS FC	--
Loop Disconnect	--	FC	FXO Uninvolved FXS FC	--
Loop Reversal	--	FC	FXO Uninvolved FXS FC	--
Loop Voltage & Current Monitoring	FC	FC	FC	--
On-hook & Off-hook Transmission	FC	FC	FC	--
Hook-flash Detect	--	FC	FXO Uninvolved FXS FC	--
DTMF Signalling	FC	FC	FC	FC
Operation Temperature	0°C ~ 45°C	0°C ~ 45°C	0°C ~ 45°C	0°C ~ 45°C
Storage Temperature	-20°C ~ 80°C	-20°C ~ 80°C	-20°C ~ 80°C	-20°C ~ 80°C
Humidity	10% ~ 90% Non-Condensing	10% ~ 90% Non-Condensing	10% ~ 90% Non-Condensing	10% ~ 90% Non-Condensing
Dimensions	207 x 130x 20 mm	207 x 130x 20 mm	207 x 130x 20 mm	207 x 130x 20 mm
Weight	0.24 kg	0.24 kg	0.24 kg	0.17 kg
Warranty	1 Year	1 Year	1 Year	1 Year

Programmable Audio Gain

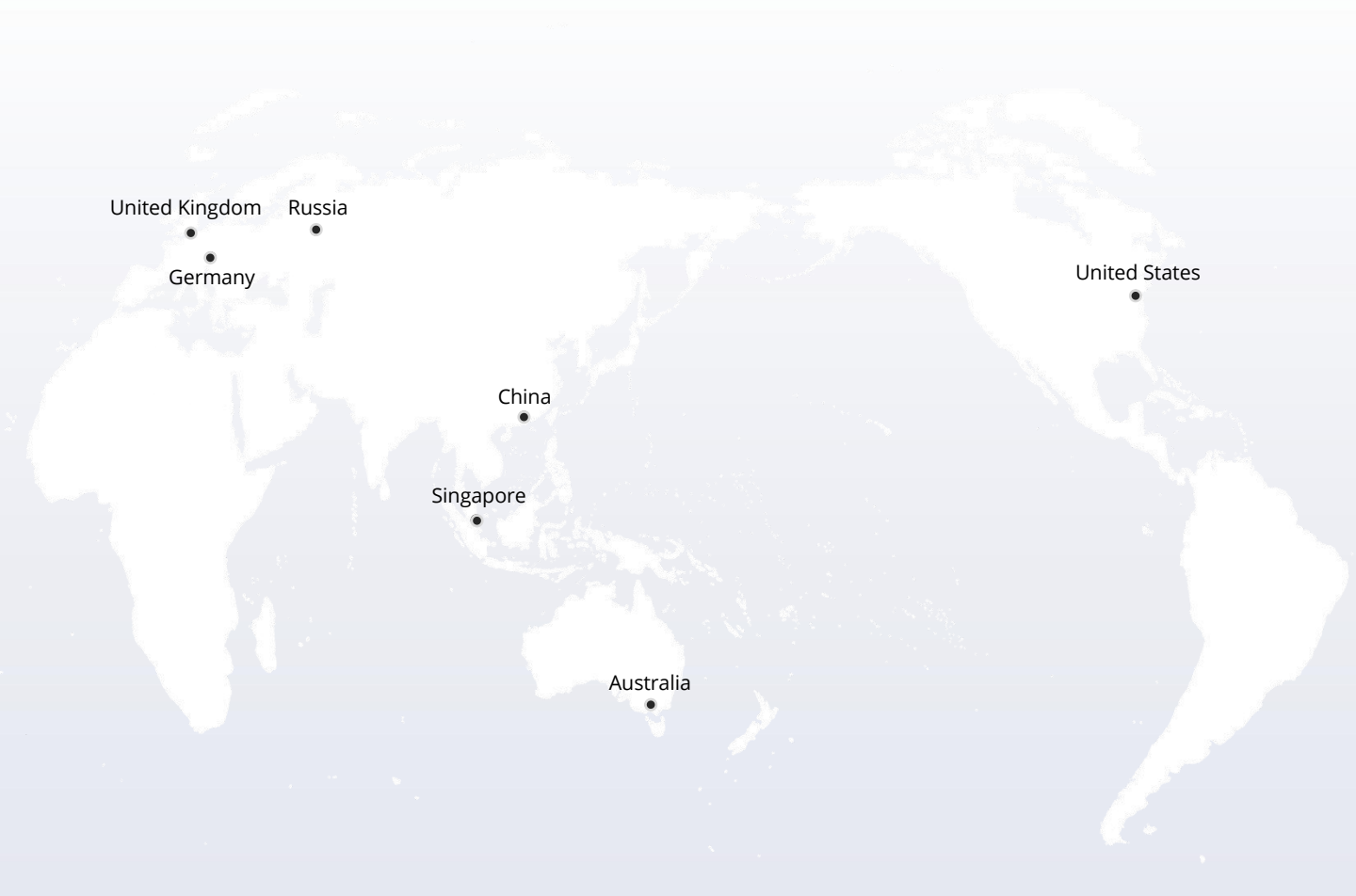
8 FXO	DSP T/R gain:-10 to +10dB CODEC T/R gain:-12 to +12dB
8 FXS	DSP T/R gain:-10 to +10dB CODEC T/R gain:-12 to +12dB
4 FXU (4 FXO + 4 FXS)	DSP T/R gain:-10 to +10dB CODEC T/R gain:-12 to +12dB
DTU (E1 / T1)	DSP T/R gain:-10 to +10dB

Loop Current

8 FXO	Limited of the PSTN Line
8 FXS	Offhook: 20mA Onhook: 0mA
4 FXU (4 FXO + 4 FXS)	FXO Limited of PSTN Line FXS: Offhook: 20mA; Onhook: 0mA
DTU (E1 / T1)	--

LED Indicates Port Status

8 FXO	LED On: Off-hook LED Off: On-hook
8 FXS	LED On: Off-hook LED Off: On-hook
4 FXU (4 FXO + 4 FXS)	LED On: Off-hook LED Off: On-hook
DTU (E1 / T1)	LED On: Connect Ok LED Off: Abnormal



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