

# UBX500-2S20

## IP PBX for SMEs



### Product Description

UBX500-2S20 is a highly efficient IP phone system solution specifically designed for small and medium-sized enterprises. UBX500-2S20 provides 2 FXS and 2 FXO interfaces and allows users to expand with 2S/2O/1S1O modules, supporting up to 3 additional modules to flexibly meet various communication needs. UBX500-2S20 supports up to 500 SIP users and 50 concurrent calls (with up to 25 concurrent calls in full recording mode), ensuring excellent call quality even under high load conditions.

UBX500-2S20 enables remote office through SIP voice terminals and can seamlessly integrate with other IP PBX or traditional PBX systems, catering to the diverse communication requirements of enterprises. It employs advanced encryption and security strategies to fully ensure communication security.

UBX500-2S20 can help small and medium-sized call centers or enterprise branches to enhance communication efficiency and reduce communication costs, which can provide a stable, secure, and efficient communication environment for businesses.

### Key Features

- Supports up to 500 SIP users and 50 concurrent calls
- Supports 2 FXS and 2 FXO interfaces
- Expandable with 2S/2O/1S1O modules, supporting up to 3 modules
- Flexible dial rules based on time, number or source IP etc.
- Supports Multi-level IVR (Interactive Voice Response)
- Support voicemail/ Voice recording
- User-friendly web interface, classification of web user's rights
- UBX500-2S20 provides the above 3 different types of licenses to grow with your business.

## PRODUCT FEATURES AND SPECIFICATIONS

# UBX500-2S20 IP PBX for SMEs

Level Up User Extensions (Optional)	60	200	500
Concurrent Calls	15	30	50

UBX500-2S20 provides the above 3 different types of licenses to grow with your business.

## Physical Interfaces

### FXS&FXO Ports

Supports 2\*FXS ports, 2\*FXO ports Expandable with 2S/20/1S10 module Supports up to 3 additional modules

USB Interface: 1\*USB2.0

Ethernet Interfaces 2\*100/1000M, Base-T, RJ45

1\*TF card slot

Console port: 1\* RS232, 115200bps

## Voice Capabilities

VoIP Protocols: SIP over UDP/TCP/TLS, RTP/SRTP/ZRTP

Silence Suppression

VPN Server/Client

Dynamic Jitter Buffer

Adjustable Gain Control

Automatic Gain Control (AGC)

FAX: T.38, VBD and Pass-through

NAT: STUN/DDNS

Comfort Noise Generator (CNG)

Voice Activity Detection (VAD)

DTMF: RFC2833/Signal/Inband

Codecs: G.711 a/μ law,G.723.1,G.729A/B,

iLBC,G.726,OPUS,G.722

Call Progress Tones: Dial Tone, Ring Back Tone, Busy Tone

Echo Cancellation: G.168 with up to 128ms

## FXS

Connector: RJ11

Hook Flash

Polarity Reversal

Answer and Disconnect Signaling: Answer, Disconnect, Busy Tone

Caller ID: Bell core Type 1&2, ETSI, BT, NTT and DTMF

## FXO

Connector: RJ11

Caller ID: FSK, DTMF

Answer Delay

Polarity Reversal

Detection of Busy Tone

Detection of No Current

Auto Match of FXO Impedance

## Network

IP Firewall, Fail2ban

Dynamic/Static NAT

Dual-machine Hot Standby

Anti-brute Force Attack Mechanism

## Call Feature

Call Waiting  
Call Holding  
Call Forward  
(Unconditional/ No Answer/Busy)  
Call Transfer(Attended/Blind)  
DID/DOD  
DNIS (Dialed Number Identification Service)  
Call Pickup  
Call Parking  
Alarm call  
Speed Dial  
Emergency call  
Call Return  
DISA (Direct Inward System Access)  
Do-not-disturb (DND)  
Music on Hold  
Coloring Ring Back Tone (CRBT)  
Distinctive Ringtone, Custom Prompts  
Call Routing Groups, Ring Group  
Call Queue  
Auto-recording  
Call Monitoring (Listen/Whisper/Barge-in)

## Maintenance

NTP  
Syslog  
Ping and Tracert  
Auto Provision  
Network Capture  
Web-based Management Portal  
HTTP&HTTPS/NATS API  
Configuration Restore/Backup  
Multiple Languages Supported  
HTTP/HTTPS/TFTP/FTP Firmware Upgrade  
Traffic Statistics: TCP, UDP, RTP  
Classification of Web Users' Rights  
Personal Portal Management  
PNP Auto Provision  
Network Management System

## PBX Services

CDRs  
Video call  
Voicemail, Voicemail to Email, Email Client  
Paging/Intercom  
Dial Rules  
Caller ID display  
Blacklist/Whitelist  
Event Report  
Manager/Secretary Function  
Feature Code  
Business Hours & Holidays  
Call Restriction (Local/National/International)  
Hotline, VIP Extension  
Follow me (one number service)  
IVR (Multi-level/Multi-lingual/Time-based)  
3-Way Conference, Conference call  
Failover Routing  
One SIP account with multi device registrations  
BLF, PIN list  
SMS Route  
Personal/Enterprise Phonebook, LDAP  
Auto-attendant Function  
Auto CLIP  
WebRTC  
Support softphone Dinlink (App)  
Up to 25 concurrent calls in full recording mode  
Caller/Called Number Manipulation  
Routing Based on Time Period, Caller/Called Prefixes,  
Source Trunks  
Local Recording (Support USB Storage)

## Environmental

Power Supply: 12VDC, 2A  
Power Consumption: 10W  
Unit Weight: 1.1kg  
Operating Temperature: 0 °C ~ 40 °C  
Storage Temperature: -10 °C ~90 °C  
Humidity: 10%-90% non-condensing  
Dimensions (W/D/H): 260×154×42mm

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