Maipu VC350 Series IPPBX Datasheet

Overview

The VC350 series IPPBX is a next-generation, high-capacity unified communication system developed by Maipu based on the latest upgraded technology. This 1U rack-mounted device provides four user board interfaces, supporting FXS, FXO, and E1/T1 voice interfaces. It integrates a rich set of business features, including voice, fax, conferencing, recording, etc.

The VC350 series supports up to 500 registered extensions and 120 concurrent calls, facilitating remote office operations through extensions or interconnection with other IPPBX or traditional PBX systems to meet diverse user needs. Additionally, the VC350 series supports various encryption and security strategies to better ensure communication security.

The VC350 series is widely applicable to small and medium-sized call centers and enterprise branch offices, improving communication efficiency and reducing communication costs. It is also suitable for single-site office communication in large and medium-sized enterprises, meeting the needs of multi-point telephony networking for large corporate groups and government agencies, helping businesses and industry customers establish convenient and efficient IP telephony systems.



VC350 Front



VC350 Pro Front



Back

Features

- Provides four slots for voice module, capable of mixing FXS, FXO, and E1/T1 user boards.
- Supports up to 2000 registered users and 300 concurrent calls.
- Flexible and efficient routing strategies, based on various criteria such as time and number prefix.

- Supports multi-level IVR voice menus, helping enterprises build personalized voice navigation systems.
- Can connect to traditional PSTN networks and IP voice networks.
- Flexible dialing plans with routing strategies based on time, number, source, IP, and more.
- Supports ring groups, paging groups, call queues, and conferencing.
- Supports voicemail and voice recording.

Technical Specifications

Product Model	VC350	VC350 Pro
Hardware specification		
MCU Slot	1	
MCU Module	2*100/1000M RJ45 1* USB 2.0 1* RJ45 Console	4*100/1000M RJ45 2* USB 2.0 1* USB 3.0 1* USB-B Console
Voice Card Slots	4	
Voice Module	8*FXS interface - 2*RJ45 8*FXO interface - 2*RJ45 4*E1/T1 Module Slots	
Power Consumption	⩽50W	
Dimension(W*D*H)mm	437*345*49 mm	
Weight	5.7kg	
Input Voltage	AC:100V ~ 240V/50Hz ~ 60Hz	
Temperature	Work Temperature： 0℃ to 45℃ Storage Temperature： -20℃ to 80℃	
Humidity	Work Humidity:10%～90%, non-condensing Storage Humidity:5%～95%, non-condensing	
Performance parameters		
Max. Registered Users	500	2000
Max. Concurrent Calls	120	300
Max. SIP Trunk	32	
Max. E1/T1 Ports	4	
Max. FXS/FXO Ports	32	

Software Specification		
Voice Features	Protocols	SIP over UDP/TCP/TLS, SDP, RTP/RTCP/SRTP/ZRTP
	Voice Codecs	G.711a/u law, G.723.1, G.729, G.722, G.726, OPUS
	Video Codecs	VP8/H.261/H.264/H.263
	E1/T1 Signal	ISDN PRI, SS7
	Features	Voice Interruption Protection, Silence Suppression, Comfort Noise Generation (CNG), Voice Activity Detection (VAD), Echo Cancellation (G.168), max 128ms, Adaptive Jitter Buffer, Call Progress Tones: Dial

		Tone, Ring Back Tone, Busy Tone, NAT Traversal: STUN/DDNS, DTMF Modes: RFC2833/Signal/Inband
PBX Features	Call Management	Call Forwarding (Unconditional/No Answer/Busy), Call Waiting/Hold, Call Transfer, Call Pickup, Do Not Disturb, Three-Way Conferencing
	Group Features	Ring Group, Paging Group, Call Queue, Phone PNP
	Routing	Route Group, Custom Multi-language IVR, SMS Routing, Conferencing, Caller/Callee Number Modification, Time-Based Routing, Caller/Callee-Based Routing, Source-Based Routing, Dialing Rules, Failover Routing
	Auto Attendant	Auto Attendant
	Storage	Local CDR Storage
Network Features	Security	Fai2ban
	Routing	Static Routing, Dynamic DNS
	Diagnostics	Network Diagnostics, Custom Hosts
Management and Maintenance	Configuration	Web Management Configuration Interface, Command Line Management Configuration, Configuration Backup/Restore, Multi-language Support
	Upgrade	Firmware Upgrade: HTTP/TFTP/FTP, Auto Provision Upgrade
	Records	Call Detail Records Query and Export, System Log Query and Export
	Tools	Network Tools: Ping, Traceroute, and Nslookup, Traffic Statistics: TCP, UDP, RTP, Network Capture
FXS/FXO Voice Card		
Voice Ports	Supports 8*FXS, 8*FXO	
Interface Type	FXS/FXO Interface Type: RJ45	
Detection	Off-hook/On-hook Detection: Off-hook, On-hook, Busy Tone Polarity Reversal Flash Hook Detection	
FXO Features	Caller ID: Bellcore Type 1&2, ETSI, BT, NNT, and DTMF	
FXO Features	FXO Features: Interface Type: RJ45, Caller ID Detection: FSK, DTMF Polarity Detection, Delayed Answer Off-hook Busy Tone Detection, No Current Off-hook Detection	
E1/T1 Voice Card		
Connection	Supports E1/T1 Line Connection to Traditional PSTN Network	
E1/T1 Features	ISDN PRI, 23B+D (T1), 30B+D (E1), NT or TE Configurable, ITU-T Q.921, ITU-T Q.931	
SS7 Signaling	ITU-T, ANSI, ITU-CHINA, MTP1/MTP2/MTP3, TUP/ISUP	
Frame Format Types	E1 Frame Format Types: DF, CRC-4, CRC_ITU, T1 Frame Format Types: 4-Frame Multi-frame (F4, FT), 2-Frame Multi-frame (eF12, D3/4), Extended Super-frame (F24, ESF), Remote Switch Mode (F72, SLC96)	
Line Coding Methods	E1: NRZ, CMI, AMI, HDB3; T1: NRZ, CMI, AMI, B8ZS	

Order Information

Model	Description
VC350 Series	
VC350	Maipu VC350 IPPBX, including 1*MCU Engine Slot, 4*Voice Card Slots, Dual AC Power Supply.
VC350 Pro	Maipu VC350 Pro IPPBX Host, Including One MCU Engine, Dual AC Power Supply, 2*GE RJ45 interfaces, 4*Voice Service Slots. Including 1000 SIP register users and 200 concurrent calls

Voice Module	
VCM-2E1	2-Port voice E1 module
VCM-4E1	4-Port voice E1 module
VCM-8S	8-Port FXS module
VCM-8O	8-Port FXO module
License	
VC350-L-250	License for Max. 250 SIP register users and 60 concurrent calls
VC350 Pro-L-1000	License for Max. 1000 SIP register users and 100 concurrent calls

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