

VL5000

VL5000 is VL series IP PBX based on industry standard SIP and especially designed for Enterprise. It offers all the functions of a traditional PBX such as Call Hold, Call Transfer, Call Pickup and Call Forwarding. Also, it provides rich advanced functions such as IVR, Voicemail to E-mail, Remote Office, BLF/BLA and more. By those functions, user will be able to reduce the communication costs, increase productivity, and enhance collaboration efficiency. Providing ranges of capabilities on PSTN connection for integrating with existing PBXs or connecting analog phones, VL5000 is all the Enterprise need to get started easily at reasonable price.

To improve its stability and enhanced performance, VL5000 adopts quad core CPU and 16GByte memory. Also PSTN backup service proves its high stability by providing seamless communication via fixed PSTN line in case of sudden interruption on IP network.



High performance and Stability



Versatile Up-to-date Features for Productivity



provide seamless services



Powerful and easy management

5000 Subscribers
500 Concurrent Calls
E1 PRI Card
NAS Card
FXO & FXS Card

- Users License(500 ~ 5000)
- Quad core CPU and 16GByte Memory
- System redundancy
- Simple Installation & Management
- Flexible Configuration
- Easy Migration to VoIP
- Remote Office

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Benefits

Up to 5000 Extensions/ 500 Concurrent Calls

VL5000 is VL series IP PBX specially designed for large sized Enterprises. This model allows user to register up to 5000 extensions and supports up to 500 concurrent calls. Also, the calls among extensions registered with VL series are free, and all the advanced functions are also supported.

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Flexible Configuration with E1 PRI, NAS, FXO & FXS Card

VL5000 has three I/O slots and each slot can be plugged in with one of three types of I/O cards, E1 PRI, NAS, and 4FXO & 4FXS combo cards. With flexible configuration of E1 PRI, NAS, and 4FXO & 4FXS, VL3000 will save VoIP adaptation costs by allowing user to select the right card based on company size.

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Use Quad core CPU for high performance

The VL5000 uses quad core CPU and 16GByte memory for high performance. It also uses a LIU(Line Interface Unit)_SATA card that can be mounted and dismounted as a storage for OS and Application. The storage uses a 2.5 inch SSD.

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Provide Seamless service and stability

The VL5000 provides reliable and continuous service through dual structure system. In case of active system failure, standby system can be replaced immediately. In addition, VL5000 use heartbeat port between active/standby system. It can share configurations in real-time. So replacing system is possible without backup files.

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Convenient SW Upgrade via WEBUI

Efficient management tool with regular S/W upgrade, Auto-Provisioning, and Diagnostic is provided through intuitive WEB user interface. WEB UI helps users to manage and upgrade system easily.



Specification

Basic PBX Features

- Call Hold/Unhold
- Call Transfer (Blind/Attended)
- Call Forwarding
(Always/Busy/No-Answer/Error/Time-Based)
- Call Pickup (Direct/Group)
- Call Park/Unpark
- Intercom (Direct/Group)
- Three-way Call
- Music on Hold
- Music on Ringback
- Group Hunt (Sequential/Circular/Ring-All/Random)
- Distinctive Ringing
- DTMF Relay (in-audio/rfc2833/SIP Info)
- Flexible Dialplan
- SIP Trunking
- DID/DOD
- FXO backup (in case VSP is unavailable)
- Call Screening
- DND
- Virtual Caller ID
- Anonymous Caller ID
- Phonebook

Advanced PBX Features

- Voicemail (with e-mail forwarding)
- Message Waiting Indication
- MR
- Conference
- Call Recording
- RAA
- Feature Code
- SIP Messaging & Presence
- BLF
- PBX-to-PBX interoperability
- System Redundancy

Security

- ACL
- DDoS Protection
- SIP DDoS Protection
- PBX-to-PBX interoperability thru VPN

SIP

- SIP Basic (RFC 3261)
- Provisional Responses (RFC 3262)
- An Offer/Answer Model (RFC 3264)
- Event Notification (RFC 3265)
- Asserted Identity (RFC 3325)
- Instant Messaging (RFC 3428)
- Message Waiting Indication (RFC 3842)
- Presence (RFC 3856)
- Session Timers (RFC 4028)
- INFO Method (RFC 2976)

Codecs

- IP
 - + Voice
 - G.711 μ /A-Law
 - G.729 A/B (pass-thru only)
 - G.723.1 (pass-thru only)
 - + Video (pass-thru only)
 - H.263
 - H.264
 - MPEG-4 SP/ASP
- Analog
 - + Voice
 - G.711 μ /A-Law
 - G.729 A/B
 - G.723.1

FXO

- LEC (G.168)
- Caller ID Detection
- Call Progress Tone Detection
- DTMF Generation & Detection
- VAD/CNG
- Packet Loss Concealment
- Adaptive Jitter Buffer
- Dynamic Payload Support
- Adjustable Audio Frames per Packet

FXS

- Battery Feeding for Analog Telephone
- Ringing Signal up to 3 LEN
- Type I/II FSK Caller ID Generation & Detection
- Call Progress Tone Generation
- DTMF Generation & Detection
- VAD/CNG
- FAX
 - + T.30 Receiving (only with e-mail forwarding)
- Configurable Tip/Ring impedance
- Hook Flash Signaling

Management

- System Configuration via WEB Manager
- Multi Language Support (Korean/English/Turkish)
- Password Protection
- Configuration Backup/Restore thru WEB/FTP
- S/W Upgrade from Remote Place
- Direct Phone Management thru WEB
- IP-Phone Auto Provision
- Event Log
- Call Log
- CDR
- SNMPv2

HW

- CPU: Compact COM Express Type 6 module with Intel Core i7-5650U at 2.2 GHz
- Memory: DDR3 16GB
- Storage: SSD

Network Interfaces

- Ethernet: 2 Ports (10/100/1000Mbps)
- SSD Heartbeat Ethernet Port (10/100/1000Mbps)
- NAS Ethernet Port (10/100/1000Mbps)
- PSTN: up to 12 Ports (4FXO & 4FXS Cards)
- Analog Telephone Interface: up to 12 Ports (3 4FXO & 4FXS Cards)
- E1 PRI : up to 2 E1
- NAS : 1TB

Other Interfaces

- LED Status Indicators
- AC 220V Power Connector
- Earth Connector
- Restore Factory Defaults Button

Power Consumption

- Max. Operational Power Consumption: 120 W

Cooling Fan

- 3 DC Fans

SuperCapacitor for Power Failure

Physical

- Dimensions: 440(W) x 430(D) x 45(H) mm

System Capacity

- Max. Extensions: 5000 Subscribers
- Max. Concurrent Calls: 500 Calls
- Max. Call Per Second: 50 (CPS)
- CDR Database: up to 200MByte records

Ethernet Interfaces

- WAN/LAN: 10Base-T, 100Base-TX, 1000Base-T complying IEEE 802.3 Standards supports Auto-Negotiation
- RJ45 Connector: Ethernet packets over CAT5-UTP cable

PSTN Interface

- 2 Pin(Tip-Ring) RJ11 Connector for each PSTN port
- Up to 3KV Line Isolation and Surge Protection
- TX power of up to +10 dBm into 600Ohm
- Ringing Detection
- CID Monitoring and Detection
- Parallel Phone Detection

Environmental

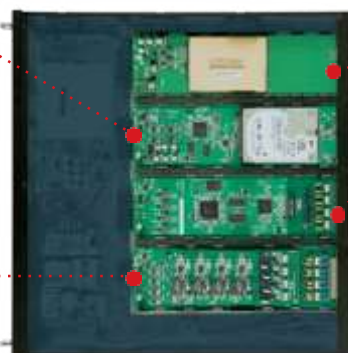
- Operating Temperature: 0°C ~ 40°C
- Operating Humidity: 20% ~ 80% RH
- Storage Temperature: -20°C ~ 60°C
- Storage Humidity: 20% ~ 95% RH

Line Interface Unit (LIU)

NAS

CPU : 400MHz, Dual Core
HDD Interface : SATA2
Ethernet Interface : Gigabit Ethernet for External Interface
HDD Spec : 2.5 inch HDD/1TB, Recording HDD FTP Support
ort : External Ethernet Interface Port, SamBa Support : External Ethernet Interface Port

4 FXO & 4 FXS



SSD CARD

Ethernet Port for Redundancy heartbeat

E1 PRI

- Card Capacity : 1 E1 PRI
- E1 Interface : 2 Ports line card (1Port (Operation) / 1Port (for Backup))
- E1 Digital : ISDN PRI (R2 Unsupported)
- CODEC : PCMa/PCMu
- LINE CODING : HDB3, AMI
- OP MODE : User/Network