WSS120

VoIP Access Gateway

WSS120 series access gateway are a telecom carrier class VoIP Gateway designed for regular phone service, Fax service and IP Centrex service,WSS120 can be used by carrier and enterprise as part of the cost effective IP-PBX solutions

WSS120 is stackable platform. The main unit can work stand along with capability of maximum 48 analog lines. When hook to an expansion unit, it can provide as many as 96 analog lines while still managed as a single GW; WSS120 main unit and expansion unit have the same physical size of 44x440x300 mm (Height x Width x Depth), the two units are connected through a 36 pin ribbon cable to form a WSS120 system; The main unit provides two Ethernet ports (RJ-45), featuring 10/100M auto negotiation and auto crossover adjustment. The main unit and expansion unit are separated powered through 100-240 AC, 50/60HZ. The maximum power consumption is 70W for main unit and 55W for the expansion unit.

Intelligent and Rich in features

WSS120 adopts embedded Linux OS, Equipped with powerful hardware configuration and controlled by sophisticated software, the system supports multiple functions and provides solutions to a variety of application demands, In addition to supplementary functions like fashion ringing tones, Caller ID, Call forward/Waiting/Transfer, also supports features like Calling/Called number mapping routing, RADIUS Billing interface, DID, 2nd stage dial and Auto dialing, WSS120 support SIP and MGCP, it is the ideal gateway for VoIP connection and IP PBX application;

Main Application：

Integrating with IP-PBX like Asterisk, 3CX
IP Centrex application
VoIP service like calling card, call termination;

VoIP gateway also can provides following functions:

PBX function：lines hunting、IVR、DID, Caller ID, Hotline, Call transfer, Call waiting;

FXO ports features：
Adjustable line gain, Auto detection for busy tone,
Caller ID, DTMF, Auto dialing

Fashion Color ringing, MWI by Tone or Neon light, Routing table, Speed dial

Easy to Operate and maintain

WSS120 supports configuration using   WEB based user interface, so you can very easy to configure and maintain it, you can view the status of call and ports, also upgrade software, change configuration, download log files, collect performance data;

High Interoperability

WSS120 has passed compatibility and interoperability testes with popular SIP server and IP PBX like Huawei, ZTE, Nortel, Alcatel, Cisco, Microsoft OCS, Asterisk, 3CX…

Investment Protection

When selecting the new generation of VoIP telecommunication equipment, users facr the challenge of cost reduction and investment protection, WSS120 not only have obvious pricing advantage, it also supports the most advanced VoIP technologies and standards ,Through software upgrades, WSS120 users can always benefit from the development of VoIP technology;

The most Popular Model list:

WSS120-48S   with 48FXS ports

WSS120-72S   with 72FXS ports

WSS120-96S   with 96FXS ports

WSS120-48O   with 48FXO ports

WSS120-96O   with 96FXO ports

WSS120-48S/48   with 48FXS+48FXO ports

WSS120-88S/8   with 88FXS+8FXO ports

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VoIP Voice Access Gateway

WSS120

Specifications

Functions

Line Configuration	48,72 up to 96 ports, can be FXS + FXO mixed ports mode
Voice Processing	Codec：G.711，G.729A，G.723.1，GSM，iLBC
	Echo Cancellation：G.168，Tail length：64 ms
	Dynamic Jitter Buffer; VAD and CNG
Call Control	Called/Calling number Mapping，Line hunting
End user functions	Caller ID，Call Forward，Call Transfer，Call Waiting，Hotline，Speed Dial，
	Do not disturb
Fax	T.30 ，T.38 Fax Relay
Billing interface	RADIUS Client，Polarity reverse
Configuration methods	WEB based on user interface, Telnet
Remote Provisioning	HTTP/WEB，Auto Provision
	Remote Configuration, software upgrade, collects log files;

Signaling

End user off hook detection	FXS Loop start，DDI (Hong Kong)
VoIP Protocols	SIP (RFC3261)，MGCP (RFC2705)，3GPP TS 24.228，TS 24.229
DTMF	In-Band： RFC2833，INFO (SIP)

Other Features

Auto Dialing	DTMF mode
Dual phone numbers	FXS port can have two number for incoming calls (PSTN and extension)
Redundancy SIP server	Support up to 10 SIP servers to enhance system reliability
Fashion ringing tones	Can download and store 20 music files

Hardware

Max Line length	3000 meters
REN Equivalence	5 for short loop (300 meters), 3 for medium loop (1500 meters)
Ringing Voltage	60 Volt
Line interface	RJ45, Per RJ45 provide 4 phone lines
Ethernet interface	RJ-45，10/100 Base-T
Internal memory	128MB
Flash memory	16MB
CPU	Motorola PowerQuicc 8247
DSP	TI 320VC5509A
Input Voltage	110～240V AC，50～60Hz，Input current 1AMP Max
Power Consumption	Main unit 70W (Max)，Expansion unit 55W (Max)
Dimension(H×W×D)	4.4×44×30 cm
	1U height ，19" Chassis
Weight	Net Weight：7Kg， Gross weight 9Kg

Environment Requirement

Operation Environment	Between 0～40℃ and humidity between 10%～95% (Non Condensing)
Non Operation Environment	- 10～60℃

Other Specifications

Telecommunication	FCC Part 15

Related VoIP Products

- **WSS8 Series：4/8 FXS/FXO ports**
- **WSS51 Series：16/24 FXS/FXO ports**
- **WSS100-TG Series：1/2/4 E1/T1 ports**

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