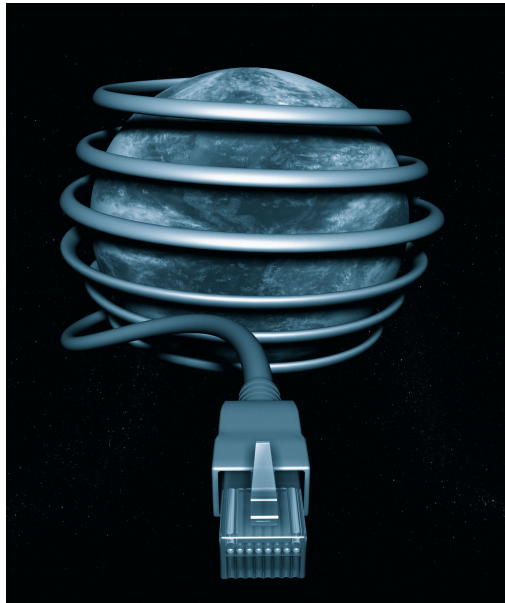


VoiceFinder

VoIP Gateway Function List



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Items	Features
ATM Service (AP2830, AP2850)	Standard Single E1/T1 ATM service
	Multiple E1/T1 ATM service
	Inverse Multiplexing over ATM (IMA) service
	ATM PVC UNI3.0, 3.1, 4.0 support
	IP over ATM (IPoA) service based on RFC1483 & RFC 1577
	PPP over ATM (PPPoA) & PPP over Ethernet (PPPoE) service
	TM4.0 based ATM class; CBR, RT-VBR, NRT-VBR, UBR+, UBR service
	ATM Adaptation Layer AAL0, AAL5 & *AAL2 type support
	Per-VC based Traffic control and VBR Type1 & Type2 support
	TM4.0 *ABR Traffic control using EFCI & ER
Routing Protocol	Various IP routing & bridging protocols support
	Static, RIP v1/v2, OSPF v2 routing protocols support
	Transparent Bridging (IEEE Spanning Tree Protocol)
WAN Protocol	Point-to-Point Protocol (PPP)
	Frame-Relay PVC (Inverse ARP support)
	High-level Data Link Control (HDLC) Protocol
	HDLC Encapsulation (compatible with CISCO- HDLC)
Frame-Relay Service (AP2520R)	Standard Frame-Relay PVC protocol support
	Interoperable with Video Conferencing solution
	V.35 standard interface support
PSTN MODEM (AP160)	QuickConnect and Modem-on-Hold™ functions (V.90+ models)
	ITU-T V.90 (V.90+ models), V.34 (V.90+ and V.34 models), V.32bis, V.32, V.22 bis, V.22, V.23, and V.21; Bell 212A and Bell 103
	V.250 and V.251 commands
	V.44 data compression
	V.42 bis and MNP 5 data compression
	V.42 LAPM and MNP 2-4 error correction
Voice over IP Service	ITU-T H.323 v3 VoIP protocol including ITU-T H.235 Security
	SIP protocol based on IETF RFC3261 (or RFC2543)
	MGCP 1.0 based on IETF RFC2705bis-02
	H.323, SIP, MGCP stack support at one system
	Embedded Gatekeeper function
	Gateway and Gatekeeper function at one system

	T.38 Real time fax support
	Audio broadcasting service support
	Real-time fax broadcasting service support
Call Control	Hot line connection function with PLAR (Private Line Auto Ring Down)
	Leased line emulation function
	Connection monitoring function
	Calling and called number conversion for PSTN inbound calls
	Fault tolerant with Redundancy and Call Distribution among Gateways for load balancing
	Call attempt with IP address
	H.323, SIP, MGCP inbound call connection for each voice port
	Multiple E.164 setting for one voice port
	One E.164 or digit pattern can be assigned to more than one voice port
	Hunting with Longest match/ priority/ sequence/ random
	One stage call setup by Digit forwarding
	Call barring with specific digit patterns
	Calling and called number conversion for PSTN outbound calls
	PSTN rerouting in case of VoIP call attempt failure
	Call transfer for internal calls
	Call pickup for internal calls
	Calling and called number conversion for VoIP outbound calls
	Calling and called number conversion for VoIP inbound calls
	Fax broadcasting call control
Codec/ FAX/ RTP	G.711ALaw, G.711ULaw, G.726r16, G.726r32, G.729A, G.723.1r63, G.723.1r53 support
	VAD (Voice Activity Detection) function support
	DTMF relay support (H.323, SIP, MGCP common) based on RFC2833
	Fax relay mode supporting T.38, inband-T.38, bypass mode
	Lost packet compensation with redundant setting in case of T.38 fax relay
	Fax relay mode, rate setting for remote end
	Redundant RTP packet transmission in case of severe packet loss
	Dynamic jitter buffer management and RPT packet jitter and loss compensation with heuristic & DSP error concealment
	Static jitter buffer setting support
	Voice frame per RTP packet number control for each codec

	Inband ring-back tone support
	Virtual ring-back tone support
	Tone parameter change support
H.323 function	Fast connect, normal connect support
	H.245 tunneling support
	Q.931 response message setting for inbound VoIP calls
	H.245 logical channel open timing selection function
	Start H.245 procedure support
	DTMF / Hook flash relay with H.245 alphanumeric / signal
	Secondary gatekeeper support
	Gatekeeper assignment according to the domain name
	Gatekeeper discovery with multicast
	Lightweight RRQ support
	Signaling TCP port assignment
	Resource threshold setting with RAI
	H.235 clear-token, crypto-token support
	canMapAlias support
	Technical prefix (supported prefix) support
Public IP assignment in NAT environment	
Gatekeeper function	Primary GK, secondary GK setting for fault-tolerant
	Security function with H.235 crypto-token
	RAS port change function
	Digit map management with technical prefix
	TTL assignment function
SIP function	Gateway-based / Endpoint-based registration support
	Secondary proxy-server assignment function
	SIP signaling port change function
	SIP proxy server assignment according to the domain name
	T.38 real-time fax relay support
	DTMF relay support with RFC2833 / OPTION message
	Re-INVITE support
MGCP function	Secondary call agent assignment function
	Default package assignment
	Announcement Server Package, Generic Media Package, Handset Package, Line Package, Trunk Package support

	MGCP call agent assignment according to the domain name
	T.38 real-time fax relay support
	DTMF relay support based on RFC2833
VoIP additional functions	Announcement support
	TCP / UDP port range assignment
	Remote call log management with Syslog
	CDR & billing with RADIUS (cisco-vsa support)
	IVR support
PSTN interface	FXS interface support
	FXO interface support
	E&M interface support (Type 1, 2, 3, 5)
	E1 interface support
	T1 interface support
	Comfort noise generation function
	Dial tone generation activation/ deactivation function
	G.168 Echo cancellation function
	DTMF gain setting function
	Input gain / Output gain setting function
FXS	Polarity inverse generation function
	Caller-id generation function (Bellcore, ETSI, ETSI-DTMF, ETSI-DTMF-PRIOR-RING, NTT caller id type support)
	Busyout function support (In case of WAN interface down or Gatekeeper registration failure, shut off the power or generate busy tone at FXS port)
	Ring cadence setting function
	Ring frequency setting function
	European Type II telephone support
	Surge protect support
FXO	Polarity inverse detection function
	Caller-id detection function (Bellcore, ETSI, ETSI-DTMF, ETSI-DTMF-PRIOR-RING, NTT caller id type support)
	Busyout function support (In case of WAN interface down or Gatekeeper registration failure, hook of the FXO port)
	PSTN backup or busyout function with Hook off in case of power down
	Clear down tone registration and detect function
	Hook flash timing setting function

	Ring detect timeout setting function
	Ring number setting function
	For outbound calls, connect when voice is detected
E&M	Type 1, 2, 3, 5 support
	2-wire, 4-wire support
	Delay-dial, Immediate, Wink-wait signaling support
	Delay-out-delay, Delay-duration, Delay-start, Wait-wink, Wink-duration, Wink-wait timing setting support
E1/T1	ISDN PRI signaling support (network mode, user mode)
	R2 signaling support (calling number receive support)
	DTMF signaling support
	Clock source master mode, slave mode support
	In case of channel allocation, ascending / descending / random support
	One physical E1/T1 interface can be divided into several logical channel groups
	Super frame, extended super frame T1 framing support
	AMI, AMI-BELL, AMI-GTE, AMI-DDS, B8ZS T1 line code support
	Immediate, Wink-start T1 CAS type support
Voice QoS Traffic Management function	IEEE 802.1p tagging support
	DiffServ Codepoint (TOS) support
	Voice traffic and data traffic priority with weighted fair queuing
	QoS bandwidth and packet per second control for WAN interface
Security function	IP packet filtering function
	IP Access list support
	User authentication function (CHAP and PAP)
	Enable/Disable specific protocols
	Auto-squareconnect of Console and Telnet session
	Multi-level user account management function
	SNMP/TELNET/FTP/HTTP/TFTP port assignment function
	SNMP/TELNET/FTP access list management
	Boot mode security checking function
Network & system management function	Standard SNMP Agent support (MIB v1/2)
	Traffic Queuing function and F/R Flow Control function support
	Web based management
	H/W, S/W watch dog function
	Remote management with Console, Rlogin, Telnet

	Various debugging and call trace function
	HTTP server based image / configuration auto-upgrade support
	Batch job function with Text based script downloading
	Web based EUIPMS (End-User IP Management Service) support
	CLI based Easy-Setup via Console port
	Windows GUI based Easy-Setup support
	Interoperable with VPMS (VoIP PnP Management System)
	Interoperable with Windows based broadcasting system
	Interoperable with Windows based Fax broadcasting system
Network additional function	IP share function (Public IP sharing by Gateway and PC)
	Traffic Queuing and F/R Flow Control function support
	Bridging function support: Spanning Tree Bridging protocol (IEEE) support
	DHCP server and relay function
	IP Accounting function
	PAT (Port Address Translation) support
	NAT (Network Address Translation) support
	Cisco Style CLI (Command Line Interface) support
	PPTP (Point-to-Point Tunneling Protocol) support
	NTP (Network Time Protocol) support
	FTP server / client support
	TFTP server / client support
	Dynamic DNS client support