DENWA PREMIUM

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Denwa Premium is a solution that offers to Service Providers (Carriers) and Companies, a key component for the migration of their VoIP communications, including in its IP-PBX a Session Border Controller (E-SBC).

E-SBC offers the interoperability, survival, security and quality control that are necessaries to connect to the Internet network by the use of SIP protocol.

From the Company point of view, E-SBC Denwa is the check point between the company´s VoIP network and the services based on the Service Provider SIP, such as the SIP Trunk or the Unified Communication applications on the cloud. E-SBC Denwa also allows the extension connectivity based on SIP, placed on the company LAN or on remote extensions through the WAN – resolving, during the process, the "NAT transversal" problems and allowing teleworking. With Denwa Primium, your Company has an armor that protects your communications against possible attacks.

E-SBC Denwa Benefits

- Denwa IP-PBX, E-SBC, Media Gateway just in one product.

- Great interoperability and flexibility for SIP adaptation.

- Full protection of the company network communications.

- Survival for subsidiaries and Pymes (optional).

- Demarcation only point.

- Capacity and functionality expansion from updates.

- Tools for monitoring and service quality control.

Easy installation

Easy configuration

Multilingual (English, Portuguese, Spanish)

App store

Security

Stability

Support

wwww.denwaip.com

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LÍNEA DENWA PREMIUM DWP-M800

Denwa COMUNICACIONES UNIFICADAS

Model	DWP-M801D 3° Gen. - 02/2015	DWP-M808A 3° Gen. - 02/2015
PSTN interfaces		
PSTN capacity	Voice interfaces: DWP-M800 Series has 8 analog lines as PSTN interface or a E1/T1/J1 port	
Digital interfaces	An E1/T1/ port using RJ-48c connectors	No
Analog interfaces	No	8 FXO ports using RJ-11 connectors
Network interfaces		
WAN	WAN 10/100/1000 Base-T Copper interface.	
LAN	4 10/100/1000Base-T plus ports and 8 10/100Base-TX ports. PoE- Power-Over Ethernet in all ports (Support 802.3af-2003 with auto detection and up to 15.4W by port), Administracoon PoE.	
Voice processing		
Voice Codecs	G.711, G.723.1, G.729A, G.722 Codecs selection, independent and dynamic by cannel.	
Echo Cancellation	G.165 and G.168-2002, with 32, 64 or 128 msec of queue size.	
QoS	jitter buffer, VAD and CNG programming that can be set.	
DTMF/MF tones	PSTN, RFC 2833 compatible tones detection and creation, DTMF relay and Call Progress detection and creation.	
IP transport	VoIP (RTP/RTCP) by IETF RFC 3550 and 3551, optional support IPv6	
Fax	T.38 (real time fax), automatic bypass to PCM	
Signaling Protocols		
Digital Lines	CAS: MF-R1: T1 CAS (E&M, loop start, Feature Group-D, E911CAMA), E1 CAS (R2 MFC), R1.5, many protocols and variation for each country and operators.	NO
	ISDN PRI: ETSI/EURO ISDN, ANSI NI2 and other variations (DMS100, 5ESS), VN3, VN4, VN6.	NO
Analog Lines	NO	Loop Start FXS/FXO, Caller ID, reversal polarity, distinctive ring, Visual alert of Message Waiting
Data routing		
	DHCP/PPPoE client to WAN door;	
	DHCP server to LAN door	
	VLAN	
	Routing Layer 3	
	Internal switching Layer 2	
	Static and dynamic routing (RIP1, RIP2, OSPF (Optional), BGP (Optional)	
Control and Administration		
Protocol control	SIP-TCP, SIP-UDP and SIP-TLS, IPv6 Survival for service continuity (Optional)	
Operation and Administration	Administration system over Denwa elements Integrated HTTP Web Server, SNMP V2/V3 Remote configuration and provisioning via FTP, HTTP or HTTPS Alarms y events via Radius and Syslog	
Service Quality IP/VoIP		
	IEEE 802.1P, TOS, DiffServ labeling	
	IEEE 802.1Q VLAN tagging	
	RTCP-XR* (Extended Reports per RFC 3611)	
	Shaping Policing, Queuing, Bandwidth Reservation (Optional)	
Security		
Firewall	INPUT and OUTPUT control Multiple rules Pre service configuration DoS prevention Intruder prevention Attack Detection Tool	
Session Border Controller (SBC)	SIP Header Conversion SIP Packages Standardization Survival (Optional) SIP IP-to-IP translation for different types of transports: UDP, TCP, TLS RTP and SRTP translation Multiple SIP trunk with multiple ITSP support Internal Network Protection (Hide) Call admission control Black and White list	
Hardware specifications		
Power supply	Power supply 90-260 V AC	
Physical dimensions	320mm x 345mm x 1U	
Rules Compliance		
Safety Rules and EMC	UL60950-1, EN60950-1, CB Certifications including national variations EN55024, EN55022 Class A, EN61000-3-2, EN61000-3-3, EN300 386, FCC 47 Part 15 Class A	
Telecommunications Standard	NO	TIA/EIA-IS-968, ETSI ES 203 021 (FXO Interface)
End of Sale End of Life	1° Generation 1° Generation	1° Generation 1° Generation