

## Analog VoIP Gateways

DW-GTW-AC-FXS008 DW-GTW-AC-FXS024



The DW-GTW-AC Series Analog VoIP Gateways are cost-effective, best-of-breed technology products. These stand-alone analog VoIP Gateways provide superior voice technology for connecting legacy telephones, fax machines and PBX systems with IP-based telephony networks, as well as for integration with IP PBX systems. They are designed and tested to be fully interoperable with leading softswitches, SIP servers and gatekeepers.

## **Deliver Feature-rich Solutions**

**DW-GTW-AC** are third generation products that have been designed to meet real market needs. In addition to superior voice technology, the products provide advanced telephony features such as long-haul, metering tones generation, country dependent MWI and Caller ID for true integration with the existing telephony infrastructure. A variety of management and provisioning tools, such as Denwa EMS, embedded web server, Telnet and SNMP enable fast deployment and management of large and complex networks.

## **Provide Interoperability**

DW-GTW-AC are part of Denwa's complete family of stand-alone VoIP Gateways for OEM system integration. Throughout the years, Denwa has invested significant effort in complying with the leading and evolving VoIP standards. Support of multiple VoIP control protocols has been tested with leading Softswitch vendors. As a provider for OEMs, System Integrators and Network Equipment Providers, Denwa offers short time-to-market with field-proven products.

## **MAIN FEATURES**

- Provides voice, fax and modem support.
- Offers toll quality voice compression.
- Enhanced capabilities including MWI, long haul, Metering Tones Generation and, Caller ID.
- Allows fallback to PSTN for E911 (Emergency number PSTN breakthrough)
  or upon net work/power failure (FXO and/or FXS) configurations.
- Supports Standalone Survivability (SAS) for hosted communications services and centralized IP-PBX deployments.
- Supports SIP, MGCP and MEGACO standard control protocols.
- Proven integration with leading PBXs, IP-PBXs, and softswitches.



System Specification		
FXO008	FXS008	FXS024
8 ports	8 ports	24 ports
FXO, RJ11	FXS, RJ11	FXS, 50-pin Telco / Connecto
1	Automatic cut th	nrough of a single analog line
10/100 BASE-T, RJ45		
Channel status and activity L	EDs	
G.168-2004 Echo Cancelation	n, VAD, CNG, Dynamic programmable Jit	ter
Buffer, modem detection and	d auto-switch to PCM	
G.711, G.723.1, G.726 ADPCM, G	G.727 ADPCM, G.729A/B, G.722	
IP T.38 compliant		
Group 3 fax relay up to 14.4 k	bps with automatic switching to PCM or	ADPCM
Conference 3-Way conference	e with local mixing	
DiffServ. TOS. 802.1 p/O VLAN	I tagging, RTCP-XR	
FXO Loop-start	FXS Loop-start	FXS Loop-start
·		
1	ss tones	
, , ,		
311 (111 C 32 O1), M C C1 (111 C 2		
BootP DHCP TETP and HTTE	P for Automatic Installation	
_		
Voice Meria asing toach tork	e priorie for basic corniguration	
SRTP		
IPSEC, TLS/SIPS, SIP (RFC 3261), MGCP (RFC 2- 05), MEGACO (H.248)		
	(III 2 33), III 23, (33 (I II 2 13)	
1		
Applying 90 VDC online for li	ighting bulb in handset ESK Stutter Dial	Tone
Support of PSTN fallback due to Power failure, if the IP connection is down or due to customer defined IP QOS thresho		
	cca mignig omy)	
	Janager (D-SEM)	
	Tallager (D SEIVI)	
	008 Up to 1600 ohm for the EYSO24	
by to 1500 offitt for the PASC	700, OP to 1000 OHITH OF THE FX3024	
up to 32 MA on 4 ports		
	FXOOO8  8 ports FXO, RJ11  10/100 BASE-T, RJ45 Channel status and activity L  G.168-2004 Echo Cancelation Buffer, modem detection an G.711, G.723.1, G.726 ADPCM, G IP T.38 compliant Group 3 fax relay up to 14.4 k Conference 3-Way conference DiffServ, TOS, 802.1 p/Q VLAN RTP/RTCP per IETF RFC 3550  FXO Loop-start DTMF (TIA 464B) User-defined and call progree DTMF Relay (RFC 2833), DTM SIP (RFC 3261), MGCP (RFC 2-  BootP, DHCP, TFTP and HTTF DHCP options 66.67 in auto of Remote management using D-EMS (Denwa Element Mar RS-232 for basic configuration Voice Menu using touch tone SRTP IPSEC, TLS/SIPS, SIP (RFC 3264 HTTPS, Access List, IPSEC  Applying 90 VDC online for I Support of PSTN fallback due Survivability (SAS) Supports Sine: 54 VRMS typical (balance) Denwa Session Experience MREN3	8 ports 8 ports FXS, RJII  Automatic cut the string of the

Line current up to 32 MA on 4 ports
Lifeline Supported in FXS008 using special Lifeline cable
Caller ID Bellcore GR-30-CORE Type 1 using Bell 202 FSK modulation, ETSI Type 1, NTT, Denmark, India, Brazil, British and

DTMF ETSI CID (ETS 300-659-1)

Polarity Reversal / Wink Immediate or smooth to prevent erroneous ringing

Metering Tones 12/16 KHz sinusoidal bursts, Generation on FXS

Distinctive Ringing By frequency (15-100 Hz) and cadence patterns

Management
OAM&P Browser-based GUI, SNMP, INI Configuration file, TR-069

Routing of FXS telephony cables outdoors can be done only in conjunction with AudioCodes' approved primary surge protector and proper installation and grounding. When done correctly, the installation will meet ITU-T K.21 (basic) standards.

Power 100-240 V AC/50-60 Hz or -48V DC\*
Environmental Operational: 5 to 40o C 41 to 104o F
Storage: -25 to 85o C -13 to 185o F
Humidity: 10 to 90% non-condensing

Dimensions (HxWxD) 42x172x220mm 42x172x220mm 44x445x269mm.

Mounting Rack mount, Table top, Wall mount

Weight 0.5 kg (1.1 lbs.) approx. 0.5 kg (1.1 lbs.) approx. 1.8 kg (4 lbs.)

EMC EN55022 Class B , CFR Part 15 Class B, EN55024,

EN61000-3-3, EN61000-3-2, VCCI Class X1 (equal to class B)
Safety EN60950-1 Safety of information technology equipment
Telecom TBR-21, TIA-968

Over-voltage protection and

surge immunity