

iAN-08E IAD

VOIP (SIP/MGCP) GATEWAY

AN 8-PORT VoIP GATEWAY/IAD DESIGNED FOR ENTERPRISE, SMALL OFFICE AND RESIDENTIAL APPLICATIONS, ENABLING VoIP OVER AN EXISTING BROADBAND CONNECTION.



KEY FEATURES

VOICE FEATURES

Supplementary features:

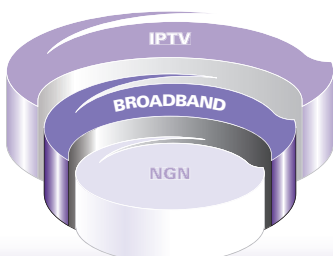
- Call hold
- Call waiting
- Call Transfer
- 3 way call conference
- Call forward (always, busy, no answer)
- Speed Dial
- Polarity reversal
- Distinctive rings
- Fax
- Caller ID
- Caller ID blocking (via RFC 3323 and 3325)
- Voice-mail notification
- Internal phone book and Digitmap
- Configurable hook-flash timing.

DATA FEATURES

- Advanced Routing
- Gateway/Bridge mode features
- PPPoE Features
- Static or Dynamic using DHCP client
- Configurable DHCP Free IP range for LAN interface
- Dynamic DNS, NAT and STUN.

MANAGEMENT AND PROVISIONING:

- Remote software upgrade and configuration upload/download via TFTP
- Telnet/Craft CLI
- EMS (Element Management System) based on SNMP trap
- Username and Password Authentication
- Advanced MGCP/SIP Authentication
- Debug capability.



INTERFACES

CUSTOMER SIDE

- 8 RJ11 FXS Ports
- 1 RJ11 PSTN Port

NETWORK SIDE

- 1 RJ45 WAN Port (10/100Base-T Ethernet, IEEE 802.3)
- 1 RJ-45 LAN port (10/100Base-T Ethernet, IEEE 802.3)

CONSOLE PORT

- RS-232 DB-9F

INDICATOR LIGHTS (LEDS)

- Power, System, 10/100M Up-Link (WAN), 10/100M LAN link, 8 x Telephone, 1 x PSTN Status

SPECIFICATION AND APPLICATIONS

DATA NETWORKING

- MAC Address (IEE 802.3)
- IPv4 (RFC 791)
- ARP Address Resolution Protocol
- DHCP client (RFC 2131)
- ICMP-Internet Control Message Protocol (RFC 792)
- TCP Transmission Control Protocol (RFC 793)
- UDP User Data gram Protocol (RFC 768)
- RTP Real Time Protocol (RFC 1889/1890)
- Type of Service, TOS (RFC 2030)
- PPPoE (RFC 2516)
- MD5 Password Encryption (RFC 1321)
- Encryption of Configuration file
- Internet multicast backbone (RFC 2327)

CALL CONTROL/VOIP FEATURES

- IETF MGCP (Media Gateway Control Protocol, RFC 2705) and Packet Cable NCS compliant
- SIP (RFC 3261, 3262, 3264)
- Voice Packet Encapsulation and Description Protocols RTP (RFC 1889) and SDP (RFC 2327)
- DTMF in band & Out-of-band (RFC 2833) (SIP INFO)
- DDNS (Secure and innovative dynamic DNS service)
- Subscriber/Notify method (RFC 3265)
- Voice Activity Detection (VAD) and Comfort Noise Generation (CNG)
- Silence Suppression
- Adaptive Jitter Buffer
- Compensation for Loss of Packet
- In-band or Out-band DTMF Relay
- Selectable TX/RX Gain Controls
- Echo cancellation G.165/G.168
- Attenuation and Gain Adjustment.
- Tone Generation (GR-506) and Custom definable
- Caller ID (Bell Core-GR30, FSK, ETSI)

VOICE ALGORITHMS

G711 A-Law / U-Law (64Kbps), G723.1 (6.3K/5.3Kbps), G726 (16K/24K/32K/40Kbps), G729AB (8Kbps), GSM (13Kbps).

FAX MODE

- Transparent FAX Mode (G3, T.30)
- Fax Auto-detection
- FAX Relay Mode: ITU-TT.38 RealTime G3 FAX over IP protocol
- Supporting ITU-T V.21, V.27ter, V.29 and V.17 up to 14,400bps

QUALITY OF SERVICE (QOS)

- Type-of-service (ToS) Bit-tagging
- VLAN Tagging,
- Internal queues/buffer management for voice prioritization

POWER SUPPLY

- AC Model: 90~260 VAC, 50~60 Hz
- Power consumption: MAX. 27 Watts

SLIC SPECIFICATION

- Interface type: FXS loop start – 2 Wire Analog Telephone or G3 Fax line
- Transmission performance EIA/TIA-464-B
- 2-Wire input impedance 600 Ohms
- Ports designed for Long haul (up to 3,000m of 24 AWG line per ports)
- DC feed 25mA Waiting Current
- Ringer Output Voltage >40Vrms, 5 REN (Each port)
- Line Current detection 100mA
- Signaling format: DTMF/Pulse
- Signaling: Polarity Reversal
- 2-Wire Return loss >20db from 200Hz to 3.4KHz
- Gain A/D or D/A: -3+/- 0.2db at 1 KHz
- Per port surge protection circuit

UNIT DIMENSIONS

- 245mm(W) x 60mm (H) x200mm(D)

WEIGHT

- 3.5 lbs (Approx.)

ENVIRONMENTAL

- Operating: 0~50°C, 10~90% humidity
- Storage: -10~70°C, 5~95% humidity

REGULATORY COMPLIANCE

- EMI: EN 50081-2, FCC Part 16 Class A (in progress)
- Safety: EN 60950, FCC Part 68(in progress), and UL/CSA (in progress)

Please note the information contained herein is for informational purposes only. Technical claims listed depend on a series of technical assumptions. Your experience with these products may differ if you operate the products in an environment, which is different from the technical assumptions. UTStarcom reserves the right to modify these specifications without prior notice. UTStarcom makes no warranties, express or implied, on the information contained in this document.

UTStarcom, Inc. USA
1275 Harbor Bay Parkway
Alameda, CA 94502 USA
Tel: 510-864-8800
Fax: 510-864-8802

www.utstar.com

About UTStarcom, Inc.

UTStarcom is a global leader in IP-based, end-to-end networking solutions and international service and support. The company sells its broadband, wireless, and handset solutions to operators in both emerging and established telecommunications markets around the world. UTStarcom enables its customers to rapidly deploy revenue-generating access services using their existing infrastructure, while providing a migration path to cost-efficient, end-to-end IP networks. Founded in 1991 and headquartered in Alameda, California, the company has research and design operations in the United States, China, Korea and India. UTStarcom is a FORTUNE 1000 company. For more information about UTStarcom, visit the company's Web site at www.utstar.com

Copyright © 2008 UTStarcom, Inc. All Rights Reserved. UTStarcom and the UTStarcom logo are registered trademarks and A World of Better Communication is a trademark of UTStarcom, Inc. and its subsidiaries. All other trademarks are the property of their respective owners.