

iAN-02EX (ATA)

VoIP GATEWAY

DESIGNED FOR ENTERPRISE, SMALL OFFICE AND RESIDENTIAL APPLICATIONS OVER AN EXISTING BROADBAND CONNECTION



KEY FEATURES

VOICE FEATURES

- Supports supplementary features;
- Call hold.
- Configurable (*, #) feature codes.
- Call transfer with/without consultation.
- Call Waiting and per call Call-Waiting Blocking
- 3 Party Conference.
- Call forward (Always, busy, no answer)
- DND (Do not disturb)
- VoIP Speed dial
- Per Port VoIP Digit Map
- PSTN Digit Map
- Configurable PSTN access code
- Configurable Tone definition.
- Distinctive Ring.
- Fax.
- Caller Number/Name display.
- Caller ID Blocking
- Per Call Caller ID Blocking.
- Anonymous call rejection.
- Repeat Dialing on busy with configurable timers
- MWI (Message Wait Indication) with Stutter dial tone support.
- VMWI (Visual Message wait indication).
- Configurable Hook-flash timing and Jitter buffer values.
- Configurable hold behavior using flash with/without feature code.

DATA FEATURES

- Configurable Device Mode (Gateway or Bridge)
- Advanced Routing function.
- Static/Dynamic WAN-IP-Addressing

- Configurable DHCP range for LAN side.
- MAC cloning, STUN and firewall capability.
- NAT, Port forwarding, IP-Filtering and DMZ
- VPN Pass through.
- NTP Server capability.
- Fax (Transparent and Fax relay)

MANAGEMENT AND PROVISIONING

- Automatic System firmware/Configuration download via TFTP/HTTP servers.
- Authentication based on user name, password and login ID.
- Flexibility to use TFTP only, HTTP only or both TFTP/HTTP.
- Configurable TFTP/ HTTP priority order selection.
- TFTP port enable/disable, TFTP port hunting up to 3 ports.
- Configurable TFTP/HTTP feature with enable/disable flags.
- URL based entry for TFTP/HTTP provisioning.
- 3 Optional config for provisioning.
- Encryption utility available for Config file for download.
- Auto sensing of TFTP port and disable download function, if Port unavailable,
- 2 Logins for Maintenance with Online debug capability with 4 debug levels.
- System Telnet and CLI interface for maintenance operations.
- EMS (Element Management System) support based on SNMP traps.
- Reset to factory default via digit map.
- Message Log on to Syslog server,
- Enable/Disable WAN provisioning.

TECHNICAL SPECIFICATIONS

INTERFACES

CUSTOMER SIDE:

- 2 RJ11 FXS Ports, RJ45 connector (10/100Base-T Ethernet, IEEE 802.3)

NETWORK SIDE:

- 1 RJ11 PSTN Port / RJ45 WAN Port / RJ45 LAN Port

INDICATOR LIGHTS

- Status LED (Power, WAN, LAN, VoIP active, Line status)

SUPPORTED SPECIFICATION AND APPLICATIONS

DATA NETWORKING

- ARP Address Resolution Protocol
- MAC Address (IEEE 802.3)
- TCP (RFC 793), UDP (RFC 768)
- DHCP Client/Server (RFC 2131)
- IPV4 (RFC 791/RFC 1883)
- NAT (RFC 3022)
- STUN (RFC 3489)
- NTP (RFC 1305),
- ICMP (RFC 792)
- PPPoE (RFC-2516)
- MD5 (RFC 1321)
- Type of Service (TOS) (RFC 1349)
- DiffServ (RFC 2475)
- RTP (RFC 1889/1890), RTCP (RFC 1890)
- TFTP (RFC 1350), HTTP Client/Server (RFC 2131)
- Https factory installed certificate
- ITU-T T.30 Fax mode, ITU-T T.38 Fax Mode.
- PPPoE (RFC 2516)
- ITU-T T.30 Fax Mode
- ITU-T T.38 Fax Mode

CALL CONTROL / VOIP FEATURES:

- SIP (RFC 3261), MGCP and H.323
- SIP-Event (RFC-3265)
- SIP Proxy redundancy A-Records, DNS-SRV
- RTCP Attribute in SDP (RFC 3605)
- Wild-Card RSIP definition.
- Configurable End-Point-Styling.
- Heart Beat (MGCP) functionality for Call Agents.

- Disable/Enable Registrar
- RTP/RTCP (RFC 3550)
- RTP Payload for DTMF Digits, Telephony Tones and Signals (RFC 2833)
- Tone Generation (GR-506) and Custom definable.
- Call ID (Bell Core GR-30, DTMF)

VOICE ALGORITHMS:

- G.711 (A-law or mLaw), G.723.1 (6.3 kbps, 5.3 kbps)
- G.726 (16/24/32/40 kbps), G.729 a/b
- Line Echo Cancellation [32ms (min) ~ 128ms (max)]
- Adaptive Jitter Buffer (Up to 90ms jitter)
- Asymmetrical Codes (Allows upstream and downstream to use different codecs)
- AGC (Auto Gain Control), AEC (Auto Echo Cancellation)
- Voice Activity Detection (VAD) and Comfort Noise (CNG)
- Echo Cancellation G.165/G.168 and Attenuation and Gain Adjustment

SLIC SPECIFICATION

Signaling: Loop Start and Polarity Reversal

Ringing source: Internal, 4 REN

Loop current: 20 mA

UNIVERSAL POWER ADAPTER:

AC adapter: 12 VDC (120 VAC / 60 Hz or 220 VAC / 50 Hz input)

Power consumption: 6.0 watts (typical)

UNIT DIMENSIONS

W x D x H: 190mm x 130mm x 30mm

Mounting Horizontal or Vertical.

WEIGHT

1.9 lbs (Approx.)

ENVIRONMENTAL

Operating (system Ambient):

0° C to 40° C –197 to 7000 feet.

Humidity 8% to 95% non-condensing

Shipping & Storage:

–25° C to 65° C, Low humidity for Low temperatures, 90% at 45° C and 30% at 65° C.

REGULATORY COMPLIANCE:

CE, FCC part 15 Class B, UL certified

Products are certified in markets specifically listed on this spec

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030205-UTSI-SS-IAN02EX