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Intelligent Telephone Adapter 300 (ITA-300) Data Sheet 1 Port FXS + 1 Port FXO Telephone Adapter with Integrated Router

The ITA-300 is a residential media gateway that enables users to take advantage of their VoIP service providers. The ITA-300 is able to route calls from local lines such as cell and land lines to the VoIP service provider and vice versa. InterEdge Intelligent Telephone Adapters family provides the interface between the end-user and the VoIP service provider's network. InterEdge Intelligent Edge Devices provides all the features necessary to provide a complete VoIP service solution. The ITA-300 is cost effective, effortless to install, and simple to use. The ITA-300 device connects end-users to VoIP networks and traditional PSTN networks in seconds. If Power is lost to the unit or internet service is down, calls can be sent to the PSTN via the FXO interface.

InterEdge ITA-300 Provides high quality voice by utilizing industry standards Voice Codecs such as G.711 (A/u Law), G.723.1A, G.729A/B and many more and a proprietary Quality of Service (QoS) technology. The ITA-300 is supports one POTS (Plain Old Telephone Service) FXS port for connection to existing analog phones and fax machines. The ITA-300 also supports one FXO port for connection to Telco or PBX Extension. In addition, the ITA-300 supports the following enhanced Telephony Features:

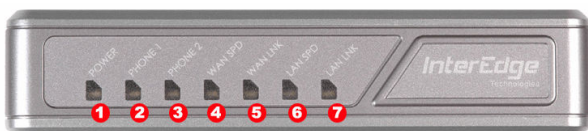
VoIP to PSTN Call Origination and Termination, PSTN to VoIP Call Origination and Termination. Security Access to VoIP network from PSTN via PIN or Caller ID. Call Waiting, Cancel Call Waiting, Caller ID with Name and Number, Call Waiting Caller ID with Name and Number, Caller ID Block, Do Not Disturb, Call Transfer, Call Return, Call Back on Busy, Distinctive Ring, Voice Mail Warning Tone and Light Indicator, Three-Way Conference Calling, Off-Hook Warning Tone, Call Forwarding on No Answer, Busy, and All Calls.

Other Features of the ITA-300 include: high speed (10/100 MB/s) rate in both the WAN and LAN ports with MDIX, Integrated Router, QoS, IP Interconnection via Static IP, DHCP, and PPPoE, NAT traversal, off hook dialing, T.38 Fax and Fax pass-through, Point to Point Dialing, Device Login with security levels, HTTP and TFTP provisioning, Can create a privet network of up to 5 users with out SIP Proxy, Plug and Play, and many more...

The ITA-Series Adaptors allow companies to protect their communications investments by allowing the emerging VoIP based Services to co-exist with their Legacy equipment and to also take advantage of the high quality but low/no cost long distance available via the Internet. The low entry cost and flexibility of InterEdge's ITA-Series Adapter allows new telephone service providers to establish a market presence at a fraction of the costs of traditional/Legacy solutions in a very short time.

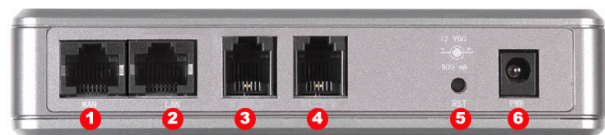
Intelligent Telephone Adapter Model 300

Front View



- | | |
|-------------|-----------------------|
| 1 Power | 5 WAN Link / Activity |
| 2 FXO | 6 LAN Speed |
| 3 FXS | 7 LAN Link / Activity |
| 4 WAN Speed | |

Back View



- | | |
|-------------|----------------|
| 1 WAN RJ-45 | 4 FXO |
| 2 LAN RJ-45 | 5 Reset Button |
| 3 FXS | 6 +12 Volt DC |

Network Support:

IPv4 - Internet Protocol Version 4,
MAC Address (IEEE 802.3),
TCP - Transmission Control Protocol,
UDP - User Datagram Protocol,
ARP - Address Resolution Protocol,
DNS - Domain Name System,
DCHP - Dynamic Host Configuration Protocol,
ICMP - Internet Control Message Protocol,
IGMP - Internet Group Management Protocol,
CIDR - Classless Inter-Domain Routing,
RTP - Real Time Protocol,
RIP V.1/V.1 - Routing Information Protocol,
SLIP - Serial Line Internet Protocol,
CSLIP - Compress Serial Line Internet Protocol
PPP - Point to Point Protocol,
PPPoE - Point to Point Protocol over Ethernet,
TFTP - Trivial File Transfer Protocol,
NFS - Network File System
ONC - Open Network Computing
RPC - Remote Procedure Call
FTP - File Transfer Protocol,
RLOGIN - Remote Login,
RSH - Remote Shell
Telnet - The Internet Standard Protocol for Remote Login,
SNTP - Simple Network Transfer Protocol

VoIP Gateway Functions:

One Analog Circuit Telephone Ports (FXS),
One Analog Circuit Telephone Port (FXO),
SIPv2 Session Initiation Protocol Ver-2,
SIP Proxy Redundancy,
MD5 Encryption for SIP authentication
NAT Traversal,
QoS- Quality of Service (Data prioritization),
Voice Coders: G.711, G.723.1/A, G.726, G.729A/AB/E,
Adjustable Audio Frames per IP Packet,
FAX Relay (T.38, V.17, V.29, V27ter),
FAX Tone Detection and Pass-through,
Voice Band Data/Modem Tone Detection and Pass-through,
DTMF – In-Band/Out-of-Band (SIP Info),
Call Progress Tone Generation,
Adaptive Jitter Buffer, Full Duplex Audio,
Echo Cancellation (G.165/G.168),
Voice Activity Detection (VAD) with Silence Suppression,
Attenuation/Gain Adjustments,
Message Waiting Indicator (MWI) Tones,
Reverse Polarity Control,

Routing Capability:

NAT- Network Address Translation,
DHCP Server -Assigns IP to Clients on the LAN port.
DHCP Client – Retrieve IP from DHCP server

Features:

Calls to Voip Service from PSTN – Authenticated, All
Calls to PSTN Service – Authenticated, All
Automatic PSTN Fallback
When loss of Power or VoIP service not active to Unit
Advanced Inbound and Outbound Call Routing
Single Stage and Two Stage Dialing
Independent Configurable Dial Plans

Subscriber Line Interface Circuit (SLIC):

Ring Voltage: 60-90 Vrms Ring Frequency: 10-40Hz
Ring Waveform: Trapezoidal/Sinusoidal Ringer Load: 3-REN.
On-Hook Voltage: -50/60V Nom. Off-Hook Current: 25ma
Nom.
Terminating Impedance: Configurable North American 600 ohm
European CTR21

Provision, Administration and Maintenance:

Web Browser Administration and Configuration(Integral Web Server),
Telephone Key Pad Configuration with Voice prompts, Automated
Provisioning and Upgrade via TFTP/HTTP, Report Generation and Event
Logging, System Log and Debug Server Record

Security:

Administrator and User Access Levels

Power Supply:

Power Adapter: 100-240 VAC, 50/60Hz., 1.8m cord
DC Input Voltage: 12VDC, 1000mA
Power Consumption: 12Watts

Operating Temperature: 41 to 113 F (5 to 45 C)
Storage Temperature: -13 to 185 F (-25 to 85 C)
Relative Humidity: 10 to 90% non-condensing

Dimensions and Weight:

Unit 14.3 cm (6.63") x 3.1 cm (1.22") x 10.5 cm (4.13")
Unit weight 181 g, Adapter weight 102 g Stand 72 g
Total Package Weight 680 g

Regulatory Compliance:

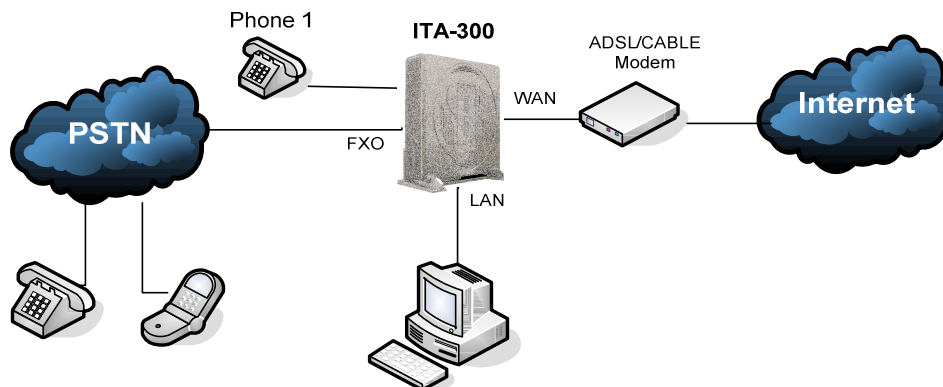
FCC Part 15 Class B, CE Mark, VCCI, UL, ICES-003,
FCC Part 68



Physical Customization:

Customer Logo / Branding / Color / Collateral documentation
Gift Box / Configuration Web Page with customer's name

Warranty: One Year Hardware – Limited



Typical Network Configuration