

[ PRODUCT SHEET ]

Product:	Ascom VoIP gateway
	Two T1/E1 interfaces
	Embedded appliance architecture
	High Availability
	Web browser-based management



## ASCOM VoIP GATEWAY

### PROVIDING SMART INTEGRATION WITH YOUR TELEPHONE SYSTEM

The Ascom VoIP Gateway, as part of a total Ascom communication solution, provides cost-effective, seamless integration with existing communication networks. For more information on how Ascom can improve efficiency at your facility, visit [ascomwireless.com](http://ascomwireless.com) or call 877-71ASCOM.

The VoIP Gateway an optional component of the Ascom FreeNET System or Freeset IP-DECT system that enables seamless integration with a circuit-switched Private Branch Exchange (PBX) or public switched telephone network (PSTN) to provide superior quality voice communication between Ascom portable handsets and any other telephone.

Specifically designed for the enterprise environment — providing advanced digital telephony services for 5,000+ Ascom portable handsets — the VoIP Gateway contains two T1 or E1 interfaces toward the PBX. It also includes 2 additional interface ports, allowing interconnection to an alternate VoIP Gateway for redundancy planning.

To ensure maximum compatibility, the VoIP Gateway supports a variety of ISDN and CAS protocols. VoIP Gateways may also be stacked to optimize the grade of service to the PBX, while maintaining a single browser-based management application. Highly reliable, with no moving components such as spinning disks or fans, the VoIP Gateway also features an integrated Gatekeeper that manages portable handset registration and call routing, optimizing the channels allocated to the PBX.

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Technical specifications	
<b>Interfaces</b>	<b>4 x T1/E1 (Shielded):</b> All interfaces can be configured as TE/Slave or NT/Master <b>Power-off loop:</b> Interconnects two T1/E1 interfaces in power off status <b>2 x Ethernet:</b> 10/100-BASE-TX auto negotiation. Automatic recognition - Uplink/downlink. Power over Ethernet (PoE) - IEEE 802.3af. Interfaces individually addressable. LED for link status and activity
<b>Physical</b>	<b>Size:</b> 8.27" x 7.24" x 1.26". Optional 19" rack mount kit <b>Weight:</b> 2.81 lbs <b>Casing:</b> Stainless-steel <b>Memory:</b> 32 MB DRAM, 8 MB Flash <b>CPU:</b> RISC CPU for protocol processing. Digital Signal Processor (DSP) for voice data processing <b>Operating temperature:</b> 32°F to 113°F <b>Humidity:</b> 10% to 90% non-condensing <b>Storage temperature:</b> 14°F to 158°F
<b>Routing</b>	<b>Telephony routing:</b> VoIP-TDM, TDM-TDM, VoIP-VoIP <b>Re-routing:</b> Configuration of alternative routes <b>ISDN protocols:</b> QSIG ECMA V.2, NI-2, 5ESS, DMS100 <b>CAS protocols:</b> E&M wink start
<b>Administration</b>	<b>Access:</b> HTML / Web-browser, password protected authentication <b>Troubleshooting:</b> logs and traces, status display of interfaces and connections, PING <b>Update:</b> Configuration save / reload. Bootcode and firmware update via HTML upload. <b>Registrations:</b> Up to 5,000 subscriber registrations per Gateway
<b>VoIP</b>	<b>Internet:</b> TCP/UDP, DHCP <b>VoIP:</b> H.323 version 4 incl. H.225, H.235, H.245, H.450 and RAS Gatekeeper routed signaling. Real time protocol (RTP), real time control protocol (RTCP) <b>RAS protocol:</b> Support for external gatekeeper <b>DTMF:</b> H.245 Alphanumeric or Signal Type <b>Additional features:</b> H.245 fast connect. En-block dialing, overlapped sending <b>Quality of Service:</b> TOS, DiffServ, IEEE 802.1p/802.1q <b>Voice encoding:</b> G.711 A-law / mu-law (64 kbps), G.723.1 (5.3 and 6.3 kbps), G.729A (16 kbps), G.726 (32 kbps), Voice Activity Detection (VAD), Comfort Noise Generation (CNG), Dynamic Jitter Buffering <b>Echo compensation:</b> G.168
<b>Additional features</b>	<b>HTTP interface:</b> Plays recorded messages from server <b>Time:</b> clock synchronized by external time server, SNTP client and server <b>Music on hold:</b> internal/external via software interface

Features at a glance

- Name and number call line identification
- Hold / Retrieve
- Transfer with and without consultation
- 3 party conference<sup>1</sup>
- Call waiting notification
- Diversion with redirection identification
- Message waiting notification
- Up to 60 simultaneous speech channels to PBX (per gateway)
- Stacks to optimize grade of service toward PBX
- Includes Gatekeeper
- Supports redundancy for disaster recovery planning
- Two Ethernet ports with separate addressing
- 19" rack mount option (1U height)
- Web browser-based management
- Supports clock synchronization with time server
- Includes Call Detail Recording (CDR)

Features and specifications are subject to change without notice. <sup>1</sup>FreeNET System only.