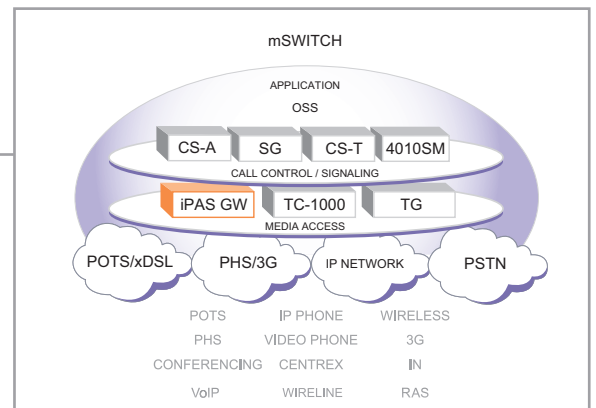


iPAS[®] Gateway

IP-BASED PERSONAL ACCESS SYSTEM GATEWAY

THE UTSTARCOM IP PERSONAL ACCESS SYSTEM (iPAS) GATEWAY ENABLES NEXT-GENERATION VOICE CONNECTIVITY IN AN iPAS NETWORK



- **NEW BUSINESS OPPORTUNITIES**
- **ONE PLATFORM: MULTIPLE SERVICES**
- **SMOOTH NEXT GENERATION NETWORK (NGN) MIGRATION**
- **SCALABLE PSTN INTEGRATION**
- **HIGH AVAILABILITY**
- **HIGH CAPACITY**

The iPAS Gateway works with UTStarcom’s mSwitch[®] platform to provide switching functionality for UTStarcom’s highly successful Personal Access System (PAS[®]) wireless solution. It enables PAS integration with both the PSTN and packet voice networks, protecting existing carrier infrastructure investments while providing a smooth migration path to new, revenue-generating service offerings.

WIRELESS MEDIA GATEWAY WITH PSTN AND PACKET VOICE INTEGRATION

The iPAS gateway is a key component of UTStarcom’s versatile iPAS solution, which can provide cost-effective and feature-rich citywide mobile access. The iPAS gateway performs both media & call signaling conversion between PHS wireless and V5.2 based POTS access networks, VoIP networks, and the PSTN. It delivers a scalable solution, switching calls between gateways over IP and switching calls to the PSTN by utilizing either built-in signaling and trunk capabilities or complimentary gateway components of the mSwitch softswitch platform.

The iPAS Gateway enables operators to easily expand their network with other mSwitch product components to offer a wide variety of services including: IP phone services, media gateway or Next Generation Integrated Digital Loop Carrier V5.2 based POTS services, and other mSwitch voice services and applications. In addition, the iPAS Gateway enables interconnection with 3rd party softswitch networks and 3rd party PHS networks.

KEY FEATURES AND BENEFITS

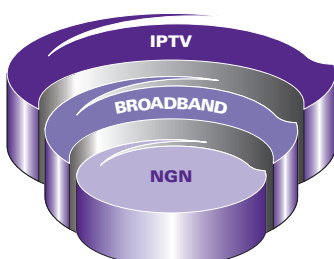
New Business Opportunities - Can enable citywide mobility, wireless Internet access at speeds up to 64Kbps, text messaging, location-based information services, email, Centrex, and prepaid services

One Platform, Multiple Services - Can be used to provide both PHS wireless and V5.2 based POTS wired access

Smooth NGN Migration - Allows smooth migration to next generation network technology by supporting both traditional and emerging industry standard protocols; leverages other mSwitch product components

PSTN Integration - Built-in trunk and signaling SS7, ISDN User Part, TUP support; mSwitch trunk and signaling gateways may also be used for different network and capacity requirements

High Availability - Hot swappable redundant modules and power supplies



Technical Specifications



CAPACITY

Busy-Hour Call Attempts (BHCA)	400k
Erlang	3500
Subscribers	75K Subscribers
Line Interface	320 E1 (E1 cards) 630 E1 Synchronous Transport Module Level 1 (STM-1)

HARDWARE

SYSTEM CHASSIS

Dimensions	622mm (24.5") (14U) H x 482mm (19") W x 432mm (17") D (Rack Mountable)
Temperature	-5° to 55°C (23° to 131°F) (operating)
Power	-40 to -72v DC
Rack Capacity	Up to three shelves per standard 7 ft
Humidity	5 to 95% non-condensing
Compliance	Federal Communication Commission (FCC) Part 15 Class A, China GB6833

INTERFACE MODULES

Public Switched Telephone Network (PSTN)	E1 and Synchronous Transport Module Level 1 (STM-1)
Management	Redundant 10/100BaseT ethernet
Call Control	Redundant 10/100BaseT ethernet
Packet	Redundant Gigabit ethernet
Clock	Redundant E1 Building Integrated Timing Supply (BITS)-IN and Stratum-3 clock

DIGITAL SIGNALING PROCESSING

ITU Recommendation G.711 Pulse code modulation (PCM) of voice frequencies

ITU Recommendation G.723.1 : Dual rate speech coder for multimedia communications transmitting at 5.3 and 6.3 kbit/s

G.729A International Telecommunication Union Recommendation G.729 : Coding of speech at 8 kbit/s using conjugate-structure algebraic-code-excited linear prediction (CS-ACELP)

Silence Suppression

Jitter Buffer

International Telecommunication Union (ITU) Recommendation G.168 digital network echo cancellers

Comfort Noise Generation

STANDARDS / PROTOCOLS SUPPORTED

Simple Network Management Protocol (SNMP) v1, v2

IP

UDP

SS7, ISDN User Part (ISUP), (TUP)

Q.931 Integrated Services Digital Network connection control protocol

TCP

RTP

RTCP

V5.2 Next Generation Integrated Digital Loop Carrier generic criteria

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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

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