MovingMedia® 2000 Sonata

IMG INTELLIGENT MEDIA GATEWAY

THE UTSTARCOM SONATA SE – IMG INTELLIGENT MEDIA GATEWAY IS A POWERFUL,FULL-FEATURED PLATFORM DESIGNED FOR SENDING CALLS BETWEEN TRADITIONAL TELEPHONE AND WIRELESS NETWORKS.

- **HIGH DENSITY FORM FACTOR**
- **COMPLETE MEDIA GATEWAY SOLUTION**
- **INTEGRATED SIGNALING AND MEDIA GATEWAY**
- **DISTRIBUTED, MODULAR IP-BASED SOLUTION**

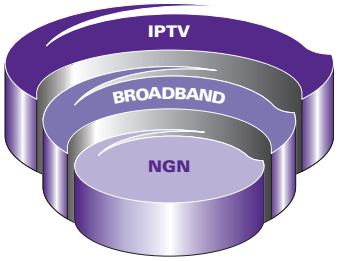
The UTStarcom Sonata IMG Intelligent Media Gateway provides a cost effective, standards compliant solution for translating calls between traditional telephone and wireless networks. This powerful platform, a key component of UTStarcom's MovingMedia® 2000 product suite, delivers full featured functionality and uncompromising performance in a compact PCI form factor.

HIGH DENSITY SOLUTION

Designed for use with CDMA and GSM/UMTS-based systems, the IMG provides very high density in a compact form factor, enabling deployment in sites where space is a premium. The solution supports as few as two T1/E1 trunks or as many as 16 T1/E1 trunks per board or 240 T1/E1 per chassis in a highly available redundant N+1 configuration. The IMG leverages industry standard control interfaces, including MGCP and Megaco/H.248 for media control, and MF-R1, CAS, MFC-R2, and ISDN for PSTN signaling. Multiple IMGs can be distributed at the network edge or at points of presence (POPs) to optimize traffic routing and minimize interconnection costs. Its modular, scalable design makes it easy to serve new geographic regions and new markets for minimal investment.

INTEGRATED FUNCTIONALITY

The IMG combines media gateway and SS7 signaling in the same chassis – unlike other solutions that separate functions – enabling the IMG to perform two functions in one. The IMG can concurrently support as few as two T1/E1 and two signaling links or up to eight signaling links and 16 T1/E1 trunks on a single media gateway board; or up to 120 signaling links per chassis. Each IMG board accommodates up to 16 T1/E1, eight narrowband, or two SAAL broadband signaling links via two dual redundant Ethernet interfaces or two optical OC3c/STM-1 interfaces. The IMG supports as many as 480 wireless vocoder channels per board. Boards can be combined to support 240 T1/E1 or 7,200 wireless vocoder channels per chassis.



Technical Specifications

HARDWARE

cPCI PCMG Version 2.16

VOICE CODERS

- CDMA:EVRC, QCELP
- GSM/UMTS:GSM FR, EFR, AMR (8 variants)
- VoIP:G.711, G.723.1, G.726, G.729A

FEATURES

Silence Suppression:	Comfort noise generation, voice activity detection
Echo Cancellation:	G.165 and G.168 2000 with 32, 64 or 128 ms echo tail
QoS Management:	Dynamic Jitter Buffer
	N+1 HA configuration

PHYSICAL INTERFACES

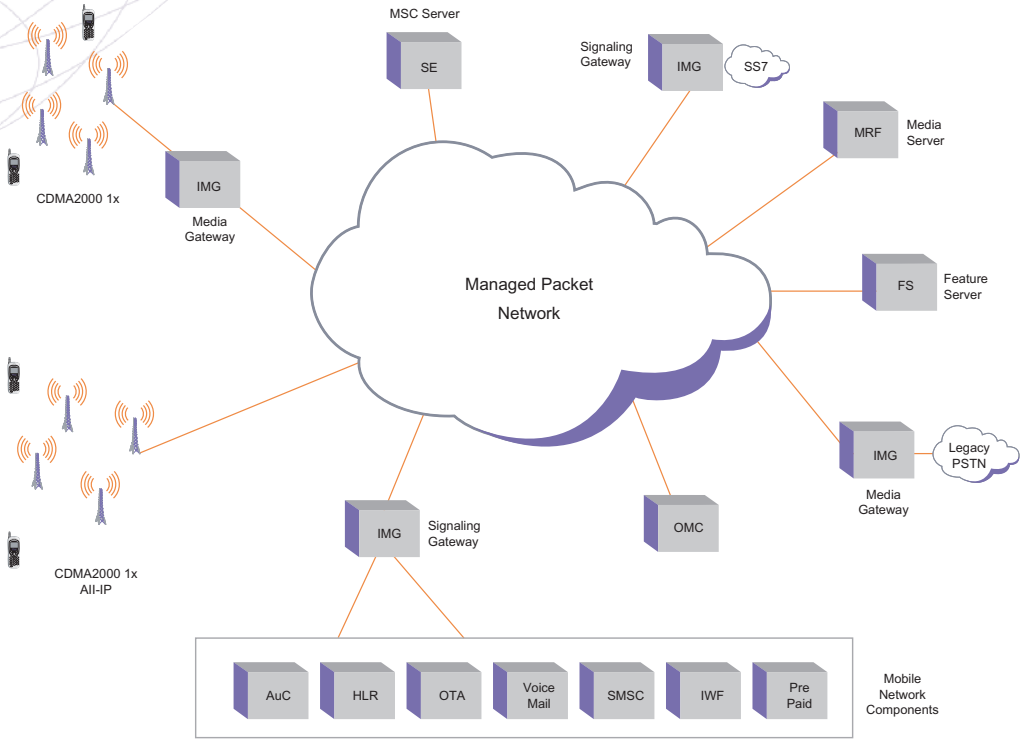
PSTN:	Two to 16 T1/E1 per board, 240 T1/E1 per chassis
ATM:	Two OC-3c (STM-1) optical ports per board
IP:	Dual redundant Ethernet per board
Backplane:	cPCI PCMG Version 2.16 H.110 CT Bus

SIGNALING

Narrowband:	Up to eight SS7 links per board, 120 links per chassis
ITU ISUP:	ITU Q.762, 763, 764;Q730-737 March 1993
ANSI ISUP:	ANSI 88, ANSI 92
CAS:	R1, R2 including country variants, DTMF
ISDN:	PRI
Broadband:	Up to two SAAL links per board
IP Transport:	IETF RFC 1889/1890 RTP/IP

PROTOCOLS

Media Control:	MGCP, Megaco/H.248
Signaling Transport:	SCTP, M2UA
Management:	SNMP v2 MIB II, TFTP, BootP



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

WS-DS-0075-IMG-0308