

# MovingMedia™ 2000 iCell Macro IP RAN

THE UTSTARCOM MOVINGMEDIA 2000 iCELL MACRO IP RAN ENABLES UBIQUITOUS WIDE-AREA COVERAGE VIA COST-EFFECTIVE IP NETWORKS.



- **LEVERAGES LOW-COST IP NETWORKS**
- **MODULAR SYSTEM SIMPLIFIES MAINTENANCE AND ELIMINATES FAILURE POINTS**
- **SCALABLE SOLUTION SUPPORTING ONE TO FOUR CARRIERS**
- **SUPPORTS CDMA2000 VOICE AND HIGH-SPEED PACKET DATA**

The UTStarcom MovingMedia 2000 iCell Macro IP RAN provides cost-effective IP-based coverage for CDMA2000 third-generation (3G) wireless networks. Designed for use with UTStarcom's MovingMedia 2000 product suite, this full-featured base transceiver station (BTS) is suitable for deployment in urban, suburban and rural environments. Due to its ability to leverage IP networks, the BTS eliminates the need to carry traffic over expensive TDM connections to a central base station controller (BSC). This enables wireless operators to save on backhaul costs and reduce operational complexity. As a result, operators can expand into new areas at minimal capital costs and serve customers in locations where it was previously economically unfeasible.

## SIMPLIFIED MAINTENANCE

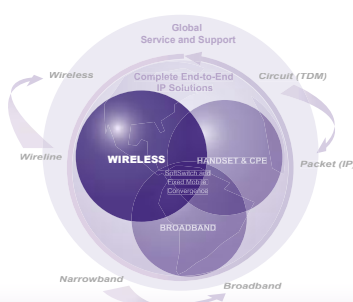
The iCell is much easier to maintain than competitive solutions. This powerful system utilizes a single 1U rack-mounted 3 sector BTS unit per carrier channel, minimizing deployment, maintenance and replacement time. By contrast, other alternative solutions require multiple interface cards, increasing potential failure points and complicating configuration and ongoing maintenance.

## MODULAR DESIGN

The system supports up to four carriers with three sectors in a compact 19-inch rack mounted chassis. Its modular, flexible design enables wireless operators to start small with a single carrier and add capacity as network and subscriber demand grows.

## BACKWARDS COMPATIBILITY

The Macro IPRAN ensures backwards compatibility to CDMA2G (IS-95) networks, thereby ensuring investment protection for the operator. The BTS can be deployed both as an overlay network and as new infrastructure in additional coverage areas.



# Technical Specifications



## HARDWARE

Dimensions: 19" Rack (78.7 in H x 25.8 in W x 39.4 in D)  
 Power: -48 VDC

## CAPACITY

Configurations: Omni, two sector and three sector  
 Power Output: 20 W per carrier at antenna port  
 Multi-Carrier Support: Up to four carriers/three sectors per cabinet  
 Pooled channel elements: 192 Reverse and 384 Forward per carrier  
 (768 Rev/1,536 Fwd channel elements per cabinet)  
 Packet data rate: 153.6 Kbps max.

## BAND SUPPORT

Band Class 0: Tx: 869–894 MHz, Rx: 824–849 MHz  
 Band Class 1: Tx: 1930–1990 MHz, Rx: 1850–1910 MHz  
 Band Class 5 Block A: Tx: 462.5–467.5 MHz, Rx: 452.5–457.5 MHz

## HARDWARE INTERFACES

Two antenna connectors per sector  
 Antenna Connectors: 7/16 DIN (female)  
 Ethernet: 100BASE-T (RJ-45)

## ALARM UNIT INTERFACE

SNMP v2c  
 External alarm points

## ENVIRONMENTAL

Temperature: 23° to 122°F (–5° to 50°C) operating  
 Humidity: 5 to 95% noncondensing

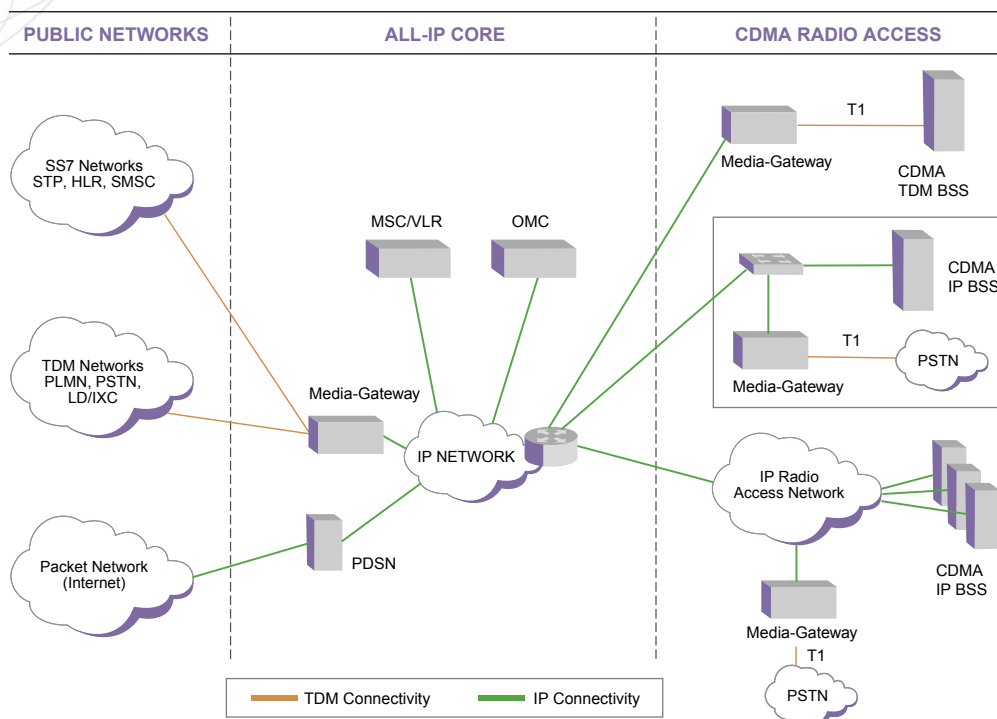
## COMPLIANCE AND SAFETY

FCC Part 15 Class A  
 FCC Part 22 or 24 (as applicable)  
 IS-97D  
 UL60950-1  
 cUL

## PROTOCOL SUPPORT

Core Network: IP  
 Voice traffic: RTP  
 Signaling: IOS/IP  
 Media control: MGCP  
 Packet data: GRE/IP

## CDMA2000 - EVOLUTION TO ALL-IP NETWORK



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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](http://www.utstar.com)

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