



SECURE CDMA CELLULAR SYSTEM



SECURE VOICE COMMUNICATIONS AND DATA CONNECTIVITY IN A MODULAR CELLULAR SYSTEM

QUALCOMM Incorporated Deployable Cellular System provides secure, reliable, and responsive mobile communications technology. The system is compact, easy-to-operate, and easy-to-deploy enabling mobile clear/secure, voice and data capabilities. Light enough to be vehicle mounted, the system can be forward-deployed to supply vital wireless communications. The deployable base station uses proven 3G CDMA cellular technology in 1.25 MHz spectrum, with data speeds up to 153 Kbps.

Deployable Cellular System:

- > Vehicle mounted or transit case wireless communications
- > Clear and secure, voice and data
- > 3G solution enables data speeds up to 153 Kbps
- > Provides CDMA 2000 1xRTT, 800/1900 MHz network
- Provides a mobile solution for tactical or first responder communications
- Supports pico-cells and macro-cells for varying coverage area and capacity
- Supports Network Centric Operations of forward deployed radio access nodes linked to a rearward switch center
- Operates Stand-alone or Interfaces to commercial or private communications systems
- All-IP interconnectivity between components


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Deployable CDMA Cellular System

RADIO ACCESS NODE CASE

CORE SWITCH CENTER CASE

 OA&M
Computer

BTS

BSC Server

Power

RF Amplifier

 Mobile Switch
& Media Gateway

PDSN (Packet Data)

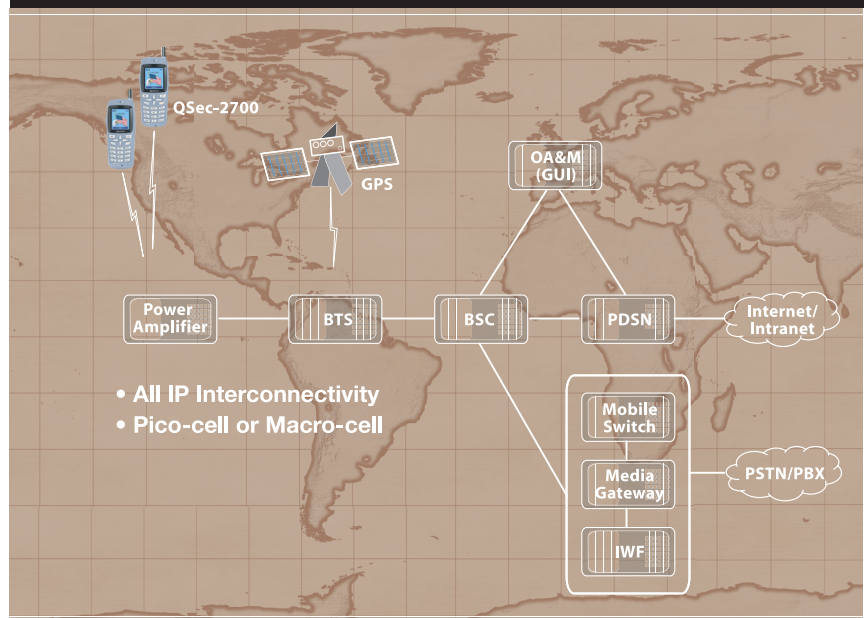
Power

Switch OA&M

Async Data IWF



SYSTEM DIAGRAM



Capabilities:

- Data rates up to 153 Kbps
- Supports QSec® -2700 Type 1 secure phones, COTS phones and PC aircards
- Operates as a stand alone network or an extension of existing communication networks
- Enables user mobility through soft handoff capabilities
- Offers standard voice services (caller ID, busy, forwarding, etc)

Capacity:

- Sector capacity – up to 40 simultaneous clear voice users
- Up to 3 sectors per BTS
- Up to 192 channel elements per BTS
- Up to 300 simultaneous active calls per BSC (voice or packet data)

Interfaces:

- PSTN—standard T1 trunks
- IP—standard 10/100 Base-T Ethernet
- Subsystems—IP networking

Operation and Maintenance:

- Fully operational in approximately 20 minutes or less from power on (excluding antenna setup)
- Graphical User Interface (GUI):
 - > Easy configuration via webpage icons
 - > Monitoring system alarms & active calls
 - > Logging call history and performance statistics
 - > Dynamic user management

Specifications:

- Size: Standard 19 inch rack mount components, approximately 15U high
- Weight: Two transit cases, approximately 150 lbs. each (100 lbs. net each)
- System power: 120 VAC, single phase, 50 to 60 Hz, 1200 Watts

RF Output (per sector):

- 100mW Pico-cell
- 17W Macro-cell

Future Enhancements:

- Clear and secure VoIP calls
- Position Location Services
- BREW® downloads
- 1xEV-DO high data rates (up to 3.1 Mbps on Fwd Link, 1.8 Mbps on Rev Link)

FOR PRODUCT INQUIRIES

OR MORE INFORMATION,

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