UltraWAVE CDMA Pico BS Plus
CDMA Base Station Controller and Base Transceiver Station

UltraWAVE CDMA Pico BS Plus is a future proof, IP-based CDMA 2000 1XRTT solution that provides indoor wireless telephony and always-on data access for mobile and residential users. Its distinctive distributed IP architecture minimizes operators' initial investment and expedites time-to-market.

The UltraWAVE CDMA Pico BS Plus is a standards-compliant, cost-effective, CDMA2000 Base Station Controller and Base Transceiver Station (BTS) utilizing IP connectivity to backhaul voice and data traffic. It is particularly optimal for indoor applications. This flexible CDMA2000 Radio Access Network (RAN) platform is ideal for providing voice and data services, as either an extension of an existing network or as part of a standalone network using the UltraWAVE CDMA MSC platform.

The UltraWAVE CDMA Pico BS Plus can be attached to a collocated or centralized trunk gateway while being managed by ADC's or a third party MSC. It can also be deployed with a standalone V5.2 access gateway.

Features:

- 1xRTT and IS-95
- Managed over MGCP or IOS
- Circuit voice, VoIP, high speed packet data
- Inter-BSC soft handoff
- Inter-BTS, Inter-BSC, Inter-Vendor Hard Handoff
- Standard A1, A3/A7 interfaces over IP

- Built-in BSC Functions including Packet Control Function (PCF)
- Built-in Selection and Distribution Unit (SDU) Functions
- EVRC/QCELP over IP
- Local call termination
- Support for supplementary services
- Omni, 1 FA or 2 FA

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Specifications

CAPACITY

Voice Channels: Up to 32 reverse CE per FA and up to 64 forward CE per FA

Data Speed: Up to 153 kbps (RC3 and RC5)

CONFIGURATIONS

BSC: Performs BSC functions excluding voice coder and echo canceller

BTS: Omni, 1 FA
Omni, 2 FA

RADIO

Air Interface: IS-95A/B, CDMA 2000 1xRTT 3GPP2 Release 0

Frequency Band: 800 MHz, 1900 MHz

Transmit Power: 100 mWatt output power at antenna port per FA

Receive Diversity: Supported

Configurations: RC1, RC2, RC3, RC4, RC5 in forward link
RC1, RC2, RC3, RC4 in reverse link

INTERFACE

IP Network Interface: 10/100 Mbps Ethernet, RJ-45 port

Signaling Protocol: IOS4.0.1 over IP

Management: SNMPv2 MIBs

Serial: RS-232, RJ-45 port

OPERATION

Synchronization: Generated by a Stratum 2 0CX0 master clock generator
Synchronized from built-in GPS receiver

Administration: System provisioning, SW download, alarm collecting, reporting
and performance statistics

Field Support: Local diagnostic and configuration terminal via 10BaseT Ethernet

POWER SUPPLY

Input Voltage: -48 VDC
Optional 110 to 220 VAC

Power Consumption: 1 FA, 1 Sector: 75 Watts

MECHANICAL

Dimensions (HxWxD): 12" x 12.5" x 5.5" (30.48 x 31.75 x 12.7 cm)

Weight: 15 lbs. (6.8 kg)

Operating Environment:

Operating Temperature: 0° to 50°C (32° to 122°F)

Humidity (non-condensing): 10% to 90% at 35°C (95°F)

COMPLIANCE: FCC Part 15 and 22 ; UL 60950, CE

SPEC SHEET

ISO9001 CERTIFIED

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