

InterReach® picoBSS

Integrated Base Station Controller and Base Transceiver Station



ADC's InterReach® Office (IRO) solution offers a unique, integrated, simple and cost-effective wireless enterprise solution. This solution combines an all-IP architecture and core network technology with ADC's industry-leading in-building coverage capabilities. This solution integrates a fleet of mobile phones with offices' private voice network, providing excellent on-site coverage, dedicated capacity and wireless PBX services. At a lower cost, IRO users can enjoy high quality voice and data services. The IRO family includes InterReach Unison®, InterReach Fusion®, InterReach picoBTS, InterReach® PicoBSS, and InterReach® Mobility Gateway.

The InterReach picoBSS is an integrated Base Station Controller (BSC) and Base Transceiver Station (BTS) in a small 19" rack-mountable chassis. The InterReach picoBSS and Distributed Antenna System (DAS) work hand-in-hand to provide enhanced RF coverage for in-building applications. The InterReach picoBSS works with the UltraWAVE R4S softswitch to provide low cost network ownership, providing all all-IP network growth path for existing and future customers.

Based on all-IP architecture, the InterReach picoBSS backhauls traffic to carriers core networks via an Ethernet connection over any IP network. This allows for faster and simpler setup and configuration compared to similar products.

Features:

- Integrated BSC
- SMS support
- Frequency hopping supported
- Distributed Antenna System (DAS) connection supported
- GPRS supported (CS-1, CS-2, CS-3, CS-4)
- 2 TRX capacity
- Full alarm reporting to UltraWAVE OMC
- The first picoBSS in the industry designed to work with DAS

SPEC SHEET



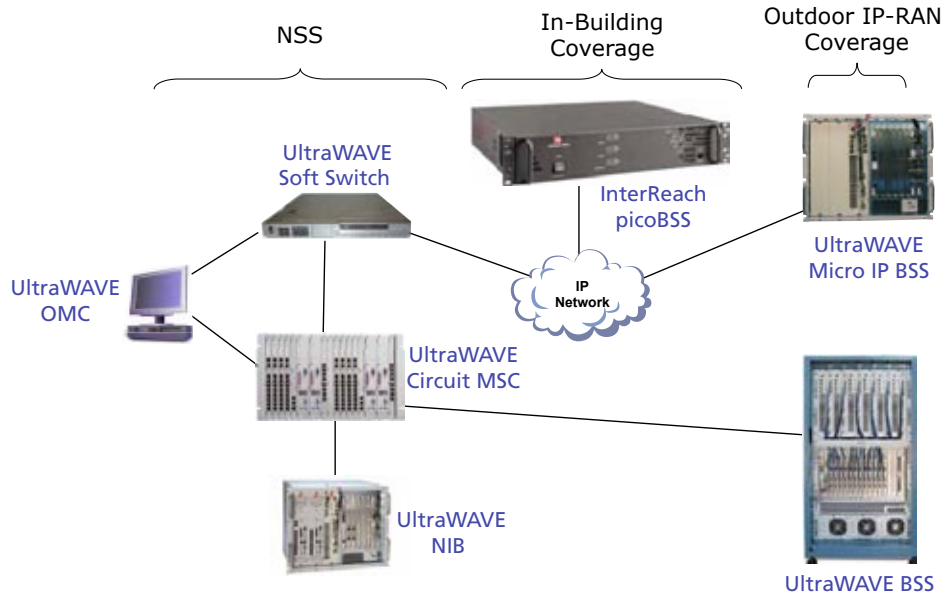
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Features:

- Available in 900, 1800 and 1900 MHz frequency bands
- Frequency hopping
- Sectorization
- General Packet Radio Service (GPRS)
- Dynamic power control (uplink and downlink)
- Remote monitoring: temperature, fan, and power supply (PSU) can be monitored from central office enabling remote diagnosis and quick recovery
- External alarms for third party equipment are also supported
- AC power supply

The InterReach picoBSS provides a compact and cost-effective platform that helps lower the cost of network ownership. This product is easy to upgrade or repair in the field and provides a range of new monitoring and control functions. The InterReach picoBSS supports up to two GSM/EDGE-ready TRXs in one chassis. A single compact chassis can support an O2 configuration. The PicoBSS conforms to GSM specifications and features, such as frequency hopping, sectorization, and GPRS.

Together with DAS, the InterReach picoBSS provides superior in-building RF coverage and uniform traffic capacity.

The InterReach picoBSS is designed for low cost maintenance with remote monitoring, external alarms, and ease of use.



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Specifications

BTS Configurations (single cabinet): O2
Frequency Support: GSM 900 MHz, DCS 1800 MHz, PCS 1900 MHz
Capacity
Number of TRXs: 2 internal
Number of Traffic Channels: 15 EFR traffic channels or 30 AMR traffic channels
Traffic Capacity: 9.0 Erlangs @ 2% GoS (O2, EFR)
 21.4 Erlangs @ 2% GoS (O2, AMR)
Distributed Antenna System: Support ADC and 3rd party DAS
Speech Coding: EFR and AMR 5.9 kbps
RF Receiver Sensitivity: -109 dBm

Interfaces

RF Interface: GSM Compliant Um Interface; GSM Spec. 04.06, 04.08, 05.01- 05.05, 05.08 and 05.10; GSM spec 03.64, 04.60 (Rel 98)
Output Power: +16 dBm
MSC Interface: Compliant A interface over SIGTRAN
Network Interface: 100 Mbps Ethernet, RJ-45 connector

Operation

Remote Monitoring: Monitor temperature, fan, PSU from central office;
 External alarms supported

Power Supply

Input Voltage: 110/220 VAC
Alarm: PSU failure alarm reported OMC

Mechanical

Rack Mount: 19" 2U chassis, versatile mounting options for, 23" and 24" racks
Dimensions (HxWxD): 48.3 x 40.6 x 8.9 cm (19" x 16" x 3.5")
Weight: 6.3 kg (13.6 lbs)

Operating Environment

Temperature: 5° to 45° C (41° to 113° F)
Humidity (non-condensing): 5% to 95%

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Website: www.adc.com

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