

GSM / GPRS / EDGE

iBSS AirSite™ Backhaul-Free GSM BTS

- In-Band Backhaul • Eliminates T1/E1/IP Expense • Compact Outdoor Enclosure

An integrated, backhaul-free base station solution that delivers the power of a macro cell – in a micro cell size. The iBSS AirSite GSM BTS eliminates the costly backhaul barrier to service expansion. When used in conjunction with Tecore’s other iBSS GSM RAN products, the AirSite BTS eliminates the need for expensive T1/E1/IP connections or microwave links by utilizing the existing spectrum to carry traffic; optimizing backhaul while still easy to deploy for highway, suburban, or rural coverage.

Low cost coverage

Increase service delivery while decreasing initial and recurring costs. With its integrated, in-band radio, a single GSM Base Transceiver Station (BTS) supports up to 12 full-power AirSite base stations from a single interconnect point, thus eliminating the monthly cost of 11 backhaul links.

Quick install

Eliminate service delivery barriers: AirSite base stations deliver the same coverage characteristics as a conventional cell, but at a fraction of the cost. The self-configuring base station includes a full complement of capabilities to deliver superior services, including a full-power, 40-Watt transceiver with automatic power control.

GPRS / EDGE

When networked with the iBSS GSM RAN, operators are able to extend GPRS/EDGE high-speed voice and data system footprints without adding more hardware. With the Tecore solution you can migrate from today’s GSM to high-speed data for the wireless internet standards.

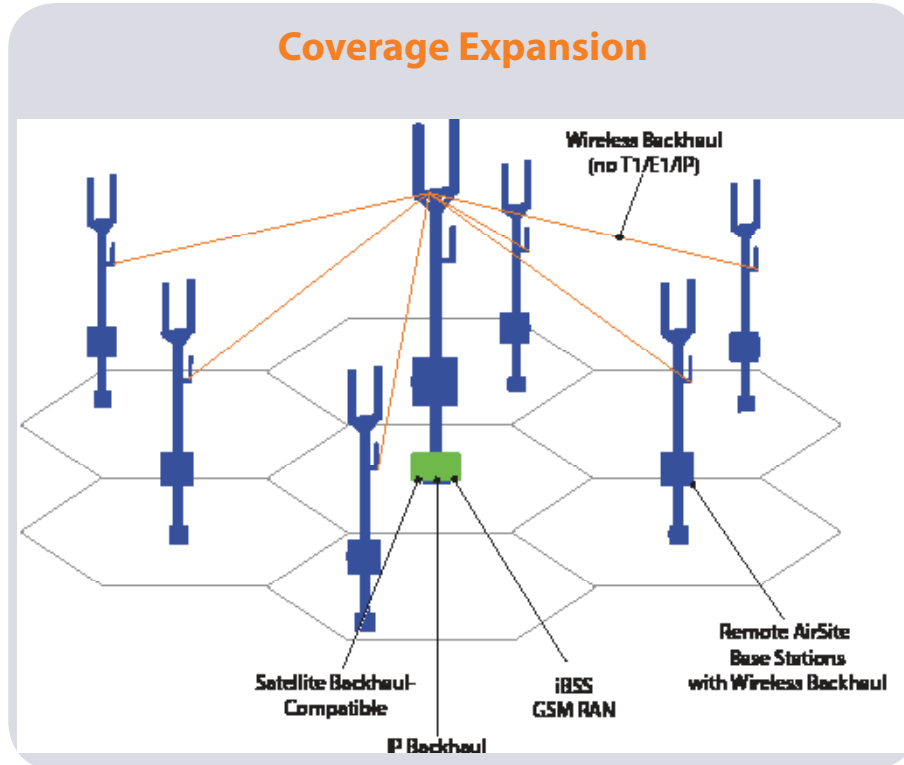


Features

- Eliminates the need for costly T1/E1/IP
- Economical coverage for each site
- Compact size permits easy deployment in any location
- Remote configuration
- “Plug and Play” automatic backhaul link configuration and tuning
- Pole, pad or wall mounted
- Ideal for difficult-to-deploy terrain
- Receive diversity
- Integrated OA&M
- Extends GPRS/EDGE coverage

Flexible deployment

Service providers can place iBSS GSM AirSite base stations in locations that will maximize their network's coverage in suburban and other low-density locations, and can easily relocate them as their network footprint changes.



Technical Specifications

RF	Number of Carriers / TRXs	1 or 2 TRXs
	Channels	8 channels per RF Carrier / TRX
	Air Interface	GSM / GPRS / EDGE
	Frequency Bands	900, 1800 and 1900 MHz
	Receive Sensitivity	-110 dBm (Typical)
	Transmit Power	Up to 40 Watts per RF Carrier / TRX
	Vocoders	AMR FR, AMR HR, EFR, FR
	Ciphering	A5 0 / 1 / 2
ENVIRONMENTAL	Ambient Temperature	-40°C to + 55°C (-40°F to +131°F) (Operating Outdoors)
	Maximum Temperature Variation	8.3° C per hour (14.94°F per hour)
	Relative Humidity	5% to 95%, non-condensing
POWER	Input Voltage	110/220V AC, 50/60 Hz
	Input Power	330W for 1 TRX / 650W for 2 TRXs
PHYSICAL	Dimensions	36" H x 20" W x 17" D (0.92m x 0.51m x 0.43m)
	Weight	116 lb for 1 TRX / 137 lb for 2 TRXs
	Serial Port	RJ-45
	TMA Power	Internal to internal mounted DC injectors
	RX ANT; TX/RX ANT	N-Type coaxial

To learn more about our technology, products and services, call us on +1.410.872.6500 or visit www.tecore.com. ©Tecore, Inc.