CoreCell-C Mini RAN
1xRTT

nfrastructure is now available in a compact form factor. This platform has the capability to support revenue-generating commercial networks, mission critical man-portable systems, on-board systems for land/ sea/air, and private in-building networks.

The CoreCell-C Mini RAN provides standard voice and 1xRTT data operations for today's IP-based networks. This RAN eliminates the costly and cumbersome equipment challenges associated with traditional systems, combining the BTS and BSC into a single unit. The all-IP architecture implements the most flexible interconnect available today. This unique platform can fit a wide range of network types and sizes, including low-capacity, high-coverage networks; macro-capacity networks required for today's high-traffic voice services; and data applications. By enabling operators to scale as needed, the CoreCell-C Mini RAN offers unparalleled return on investment.

Cost-Effective Backhaul
The Mini RAN supports IP backhaul, taking advantage of the dominance and cost effectiveness of IP networking worldwide.

Peer-to-Peer IP Switching (Tandem-Free Operation)
The Mini RAN implements a peer-to-peer RTP switching architecture that delivers RTP (voice) packets through the network in the most efficient manner, avoiding costly tromboning. Whether both parties in the call are within the base station, within a group of base stations in a particular area or on opposite sides of the network, Tecore provides a solution that allows the flow of packets directly between the two end points in the most efficient path.

Tecore markets this product to provide operators with a complete range of interoperable, standards-based infrastructure products.

FEATURES
AND BENEFITS

Standard-Compliant - Complements existing infrastructure and devices and leverages current investments

IP Interface - Maximizes connectivity options anD reduces backhaul cost

Modular - Simplifies deployment and offers a path to grow as you grow

Integrated BTS and BSC - Minimizes network elements, latency, space and power requirements and Reduces CAPEX and OPEX

CORECELL-C MINI RAN Specifications

GENERAL

RF Capabilities	Air Interface - 1xRTT, IS-95A/B Frequency Band - 450 MHz, 800 MHz, 1.9 GHz, Channel Elements - 64 Forward/ 32 Reverse CEs Configurations - 1FA - Omni Transmit Power - 10W
BSC Capabilities	Handoff Soft/Hard Integrated BSC Performs BSC functions and soft/hard hand off
Interfaces	External Interface IP-10/100 Base-T Ethernet Antenna Connectors - N-type female
Power Supply	DC: -48 VDC
Environmental Capabilities	Temperature: Operating -40°C to +55°C -40 to 131°F Temperature: Storage -40 °C to +70°C -40 to 158°F Humidity: 5 to 95% non-condensing
Hardware Capabilities	Dimensions (HxWxD): 28 x 9 x 8 inches 71 x 23 x 20 cm Weight: 44 lbs (20kg) Regulatory - FCC and UL certified

Rural Village System

Rapidly Deployable System

Military Secured System

Application Scenarios

PSTN

LMR

IP

Tecore
networks