

## LTE MicroCore - Mobility Virtualized Platform

### Best-in-class Integrated Solution for 4G LTE Deployments

Tecore's LTE MicroCore has been designed to provide a complete 4G LTE core network in a small compact footprint to meet the requirements of multiple market segments including mobile rapid deployment applications. Based on 3GPP LTE R11 specifications and ruggedized with commercial off the shelf hardware, the LTE MicroCore integrates the HSS, MME, SGW, PGW, and PCRF LTE nodal elements with Tecore's patented multi-technology software defined core network. The LTE core network platform leverages Tecore's Mobility Virtualized Platform (MVP) product portfolio architecture and scales to meet customers' requirements within multiple market segments. The MVP provides a highly reliable platform with the MVP providing the consolidation of resources across multiple virtual CPUs into a common pool partitioning resources into virtual machines (VMs) to provide the CPU, memory, and storage required in an encapsulated VM environment.

The MicroCore may be deployed in a standalone non-redundant configuration (1U rack space) or in a hardware redundant configuration (2U of rack space). The computing platform may be configured for single or dual CPU operations multiple physical cores per CPU depending on the configuration. The highly integrated solution was designed for vertical markets and small rural service providers as well as government/DoD agencies to build secured, quick and easily deployable LTE networks.



Single Server



Dual Server

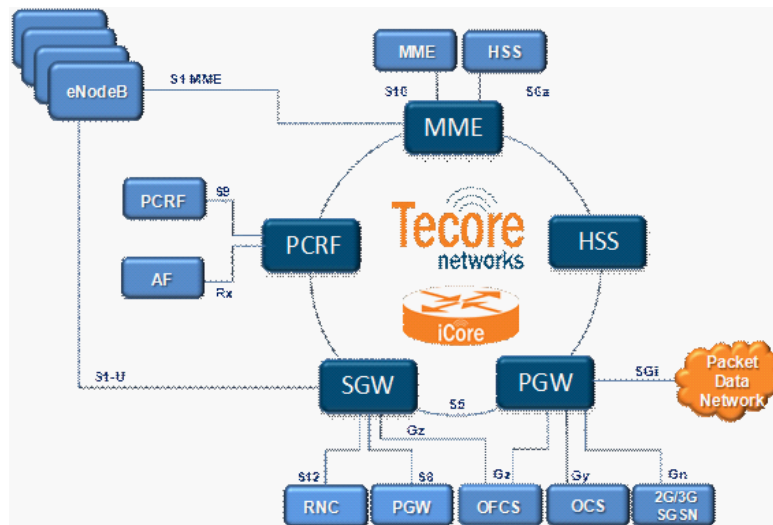
Tecore has leveraged over 23 years of experience in scalable wireless systems into the design of the LTE MicroCore. It leverages Tecore's patented iCore portfolio of 3GPP compliant Software Defined Core networking elements and cost-effectiveness enabling a broad range of wireless applications and may be customized to support customer specific requirements.

## Benefits & Features

- Compliant with 3GPP release 11 specifications, upgradeable to R12
  - Scalable from 1 to 8 eNodeBs
  - Packet Connectivity: Multiple Gb Interfaces
  - Processing scalability supporting 100 to 2,500 subscribers
    - Scalable up to 10,000 sessions
- Remote & local management via web GUI
  - VoLTE (optional)
  - S1 and X2 Handoffs
  - Certifications - FCC, CE, UL
  - Linux-based processing
  - Third party application support
    - Web based Server GUI

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LTE MicroCore Architecture

## Specifications

### Service Capabilities

- Packet data, text and voice services
- Interoperable with leading vendors' eNodeBs
- Circuit Switch Fall Back (CSFB) optional
- Voice over LTE (VoLTE) optional

### Integrated Functional Capabilities

- Mobility Management Entity (MME)
- Home Subscriber Server (HSS)
- Packet Data Network (PDN) Gateway (PGW)
- Serving Packet Gateway (SGW)
- Policy and Charging Rules Function (PCRF)
- DNS, DHCP and NTP server
- Element Management System (EMS)

### Operations & Maintenance

- Local or centralized management
- Operational in minutes
- Dual GE Interfaces
- Dual 10G SFP Interfaces
- Fan less - Conduction cooled Operation

### Environmental Capabilities

- Ingress Protection : IP 65
- Size
  - 340L x 440w x 44h mms
  - 13.4L x 17.3w x 1.75h inches
- Weight: 22lbs
- Power: DC 36-72V power input, supports DC-48V for Telecom
- Operating Temperature: -50 to +55 C
- Storage Temperature: - 40 tp +70C
- Humidity: 5% to 95%, non-condensed
- Max Power Consumption: 500 watts