

EN™ Routers Support Private LTE

Private LTE Networks Have Become An Increasingly Viable Alternative To Public Wireless Carriers for the Unique Needs of Utilities.

These private LTE networks may be a retrofit of existing private radio networks, a new build out, or using a 3rd party network dedicated to utility use. All of these options afford utility companies the opportunity to have the many benefits of a modern LTE network without the costs and complications of the public wireless providers for whom cell phone users are the highest priority.

Private LTE networks are still in the early development stages and utilities will still have use for the public carrier networks for many years to come. Until then Encore's EN™ Series offers an exclusive set of routers that can connect to both private LTE networks as well as a public carrier network like AT&T or Verizon.

The products are the industrial grade EN-2000™, and the EN-4000™. Both can support the LTE frequencies used by the public telecom carriers (Bands 2, 4, 5, 12, 13, and 17) and also frequencies that can be purposed for private LTE, Band 8.

The EN-2000™ features dual SIM capability that allows the device to switch between a public carrier network on one SIM and a private LTE network on a second SIM. This enables the router to transition between the two networks as required. The EN-2000™ can be deployed as a bridge device that allows for use of the public LTE network until such time as the private LTE network is operational while retaining the ability to switch back and forth between the two networks after it is installed.

The EN-2000™ includes several features geared to the utility user, including dual ethernet ports, optional WiFi, and two serial ports (RS232 and RS485) for use with legacy SCADA equipment, a hardened metal enclosure, Modbus support, and enhanced traffic shaping using QoS and the ability to assign data traffic to specific links.

The EN-4000™ is a more robust offering that features two radio modules, one for public LTE and the other for private LTE, often called Active / Active communication. It allows the device to send and receive data on both networks simultaneously. Access to both networks on the same box allows for the splitting of different types of data over the two networks. For instance, sensitive equipment status and signaling data could be sent over the private LTE network, whereas the public LTE network could be used for IP camera data, voice traffic or to provide internet access to a repair worker.

Both products have intuitive user interfaces for local configuration and are supported by the enCloud™ device management system (cloud-based management) as well as enSite™ (on premises management platform). Both enCloud™ and enSite™ offer features that make managing a network of EN™ Series routers easier, including cellular data limit enforcement for individual and group data plans, firmware updates, zero touch deployment for new hardware and multiple tiers for organizing large deployments.

Additionally, enSite™ can be purchased as a bundled addition to any EN™ Series router for up to ten years.



EN-2000™



EN-4000™

