STARSOLUTIONS™

PRIVATE LTE NETWORKS

DEDICATED LTE COVERAGE FOR ENABLING PRIVATE APPLICATIONS

Manufacturing

Resource Sector

Smart Cities & Ports

Transportation

Private LTE networks can provide dedicated 4G LTE wireless connectivity at industrial sites and enterprise facilities. Organizations leverage Private LTE networks to execute digital transformation by increasing connectivity and access to data. These networks are built using dedicated cell sites and network servers at individual or multiple locations. They are cost-effective to manage and operate and allow enterprises to take full advantage of LTE based IoT/M2M devices and applications.

Star Solutions has a great deal of experience deploying remote and/or private cellular networks with specialized requirements. Our highly scalable and flexible deployment architecture enables Private LTE networks of all sizes. We work closely with our customers to design and supply systems that take into consideration security, reliability, coverage, capacity and predictability. Our Sonata EPC core platform and iCell COMPAC eNodeB radio products are used to build a Private LTE network.

The Sonata EPC is a trusted and proven LTE core network platform that can be installed on dedicated servers or virtual environment. It connects the devices on the Private LTE network with the local corporate data network or the Internet. In addition to data connectivity for IoT devices and sensors, the Private LTE network can also offer users services such as VoLTE for voice calls. To enable Private LTE networks around the world, Star Solutions offers LTE eNodeB cell site equipment in a wide range of frequency bands and configurations.
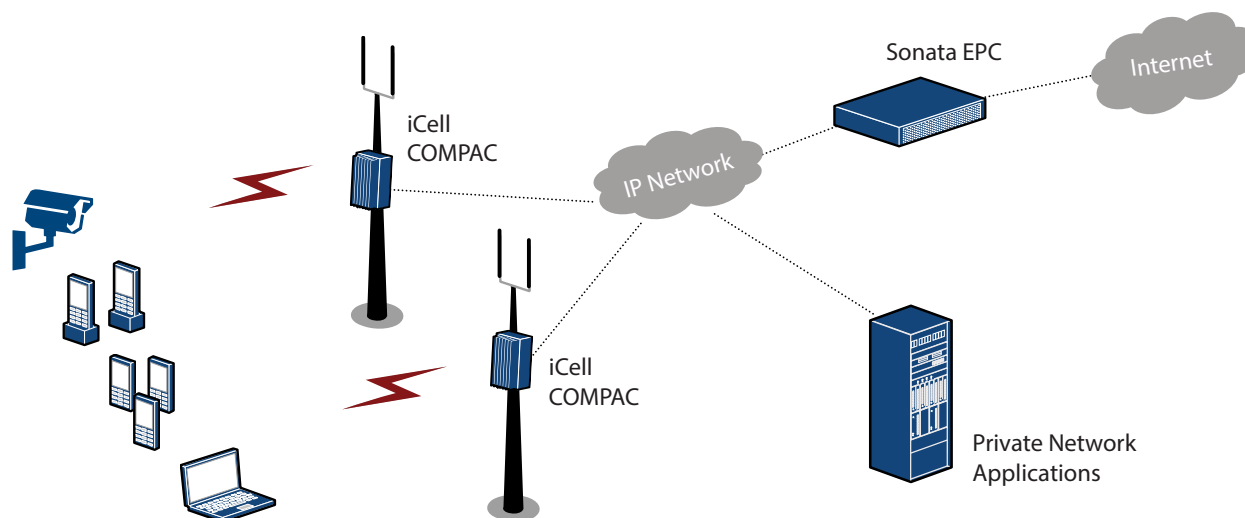
Star Solutions offers customized, end-to-end Private LTE solutions for any organization's connectivity requirements. Many industries have already started leveraging Private LTE technology such as mining, oil/gas, energy/utility, manufacturing and transportation.

Below are some examples of applications for which Private LTE can be used :

- Video Surveillance
- Process / Machine Automation
- Factory / Precision Robotics
- Asset & Sensor Tracking
- Collaborative Communications Tools

ENABLING NETWORKS TO REACH NEW MARKETS

PRIVATE LTE NETWORK

iCell COMPAC

Sonata EPC

Internet

IP Network

iCell COMPAC

Private Network Applications

Sonata EPC

EPC Functions	3GPP R10 : HSS, MME, S-GW, PDN-GW, PCRF
Deployment Options	Single or Multiple Servers VM Environment Supported (eg. VMware, KVM)
Hardware Example	1RU, 19-inch rackmount unit Single or dual power supplies (AC/DC Options)
Throughput Capacity	1GE or 10GigE ports
3rd Party eNodeB Support	Yes
VoLTE Support	Optional Built-in VoLTE voice calling

iCell COMPAC

Supported 3GPP Band Classes	FDD/TDD Bands options available Contact Star Solutions for more info
Radio	2 x 2 MIMO
Tx Power	2 x 20W
Channelization	5, 10, 15, 20 MHz
Power	-48 VDC; Optional AC Adapter ~250W typical operating
Antenna Connectors	2 x N-Type Female
Dimensions	D 180 mm x W 320 mm × H 450 mm

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