



## LTE450

### Description



## LTE450

**LTE450 contain a favorable band spectrum for numerous of reasons and carries a huge potential for both upgrading and creating long range communication infrastructure for the entire RF ecosystem because of its excellent capacity and connectivity abilities.**

The main benefit is that LTE450 works in an extended range and have a high-performance long lifetime. It is therefore very useful because of the 450 MHz band's ability to cover a large geographical area with only a few base stations. This is ideal in comparison to other LTE bands and 5G networks, which performs with higher data rates and frequencies, but that also means a lot more base

station antennas to achieve the same reliable coverage on similar territory. Using LTE450 is in this context advantageous because the base station antenna need is lower and thereby easily maintained.

Private Networks come with their own complexity where a mixture of panel, omnidirectional or other direction Yagi type antennas will be required. No matter the complexity of the radio plan for the site, we have what you are looking for

- Single band LTE450 and LTE700/800 panel antennas for Infrastructure.
- Omnidirectional colinear and dipole antennas
- Yagiâ??s and stacked dipoles
- Filters and Combiners

Another reason to use the 450 MHz band is because many countries already have enough cellular antennas for mobile broadband services deployed already to utilize a LTE450 network probably. The cost is a key benefit as well as it is very appealing for covering rural territories and vendors interests in supporting LTE450 networks.

Moreover, the LTE450 bands is beneficial because of its signal penetration power, which is very handy when working in areas with barriers like walls or other kinds of physical obstacles. These problems can for instance occur with any indoor installations. The 450 MHz band is in these situations very recommended.

LTE450 is getting popular because of its high number of application opportunities. 450 MHz band has in the past been mostly used for serving cellular networks for Public Safety and Mission Critical efforts, which the band still is very useful for. But because of its flexibility it is now being deployed in various other markets and segments. To name a few LTE450 are used for gas distribution, SCADA systems, power grids, heat distribution and various smart meter and smart city network deployments. Operators can also benefit by upgrading their existing networks in rural communities to the 450 MHz band as it is less costly economically.

**Furthermore, there is a huge potential for the 450 MHz band to conquer machine-to-machine communications. Applications wise for instance, already mentioned smart metering, medical monitoring, and video surveillance is well-suited for LTE450.**

[Contact Us](#)

## **Key benefits**

**Amphenol Procom is industry leaders with over 70 years in the design and manufacturer of antennas, filters, and combiners for many of those focused on systems in the 450 MHz range. LTE450 fits perfectly with our heritage and provides an opportunity to further expand our unrivalled portfolio of products. Naturally being members of the LTE450 alliance made perfect sense. A community where we can share and learn for the good of the LTE450 ecosystem.**

LTE450, no matter a national infrastructure rollout or local private network, we have the solution. For national networks you may consider a LTE450 sole purpose panel antenna, or dual purpose products covering LTE450 and LTE700/800 for example.

Moreover, you may consider how you can secure your LTE network by filtering properly. E.g., against high power broadcast base stations, or filtering so your LTE network does not harm other adjacent radio systems. We will be happy to help you in this matter. Our expansive portfolio of products and options will meet or exceed your requirements.

- [LTE Base Station Antennas](#)
- [LTE Band Pass Filters](#)
- [LTE450 Duplex Filters](#)

## Products



### [RF Combiners](#)

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### [RF Filters](#)

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