



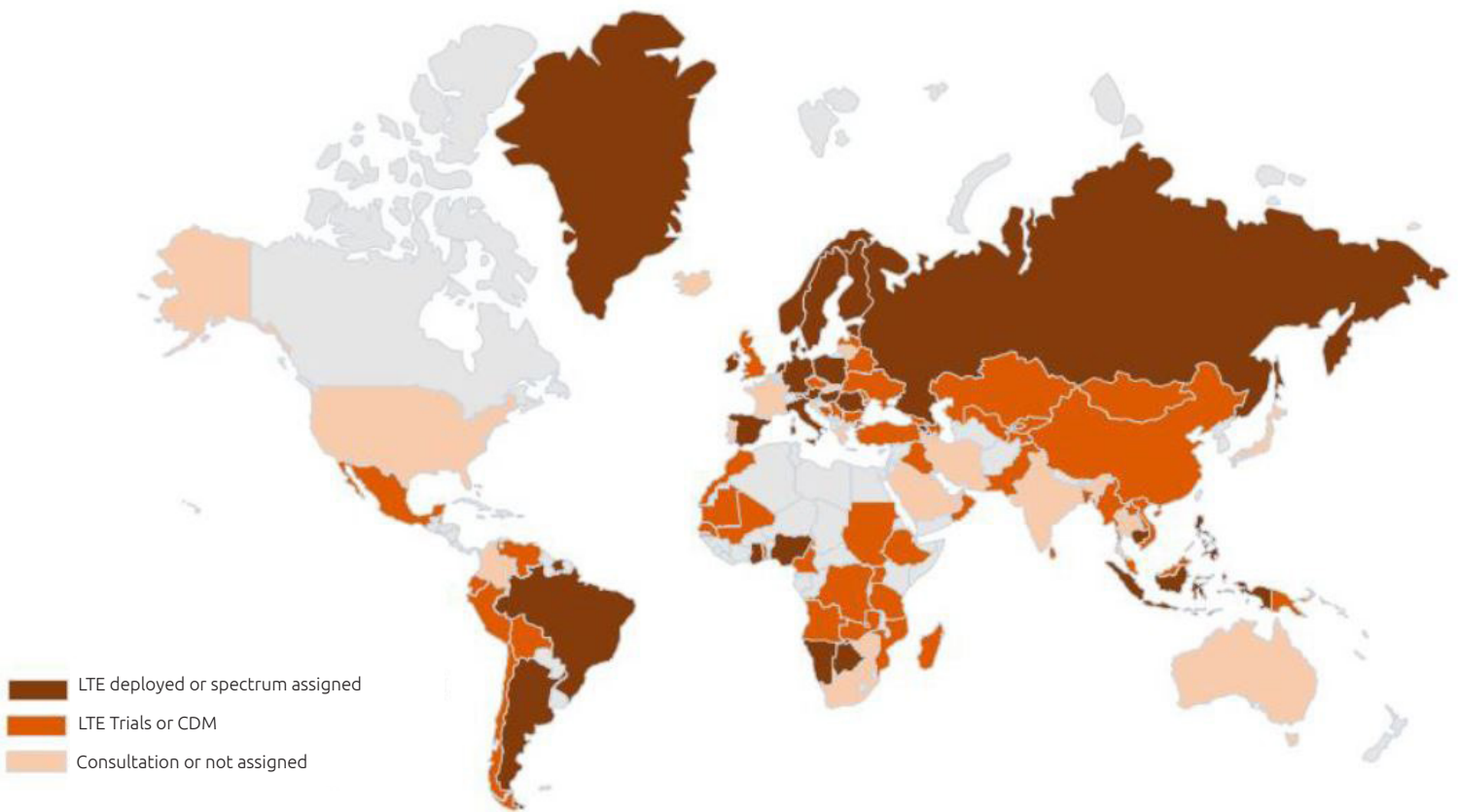
Reliable products
for the entire RF ecosystem

 **lte** 450

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450  alliance.org

The world map of 380 MHz, 410 MHz, and 450 MHz deployment



Spectrum in the 400 MHz bands is today already allocated or in consultation in countries representing more than 6.6 billion people or 85 percent of the world population.

Networks are being or are already deployed or in trial in countries representing more than 4.1 billion people or 52 percent of the world population.

Source:

Annual Global Update

Public version

450 MHz Alliance, September 2021

Amphenol Procom the preferred LTE450 partner

Amphenol Procom is industry leader 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, if you are planning a national infrastructure roll out or local private network, we have the solution. For national networks you may consider a LTE450 single band panel antenna, or dual product covering both LTE450 and LTE700/800 for example.

Another consideration is how can you secure your LTE network by filtering properly. e.g., against high power broadcast base stations, or filtering so your network does not harm other adjacent radio systems. We will be happy to help you in this matter.

HybridLine XPA Series

Our new "HybridLine" cross polarized panel series covers LTE450 and LTE700/800/850 in one product. The antenna is being designed to offer a very stable radiation pattern over two separate bands of operation.



Features:

- 2 ports on LTE450
- AISG Remote electrical tilt (RET) on both bands
- Horizontal Beamwidth of 72° / 72°, which is optimal tri-sector omni pattern

4220 Omni Antenna series

The [4220 series omni antenna](#) is designed for demanding applications where a durable and high performance colinear is required. Very suitable for multi-channel trunked radio communication systems.

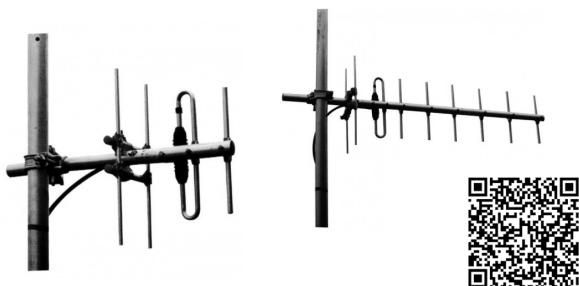
Features:

- PIM Rated (-153 dBc)
- Lightning protection
- Survival wind speed of 300 km/h
- 7/16th connector (4.3-10 coming soon)
- 0-12 degrees downtilt



Yagis

The [3-element](#) and [8-element](#) UHF Yagi antennas for PMR/Trunked Radio and Broadcast applications are produced to the highest quality standards.



Features:

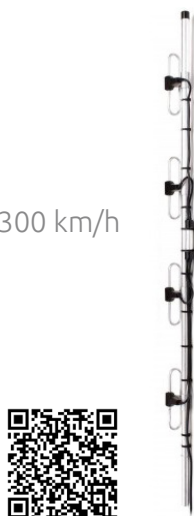
- PIM Rated (-143 dBc)
- Lightning protection
- Survival wind speed of 300 km/h

4-stack Dipole Array

The [4104.04 antenna](#) is a version of the S.M4 four-stack dipole array, designed for improved performance in multi-channel communication systems such as TETRA.

Features:

- PIM Rated (-143 dBc)
- Lightning protection
- Survival wind speed of 300 km/h



DAS Antennas

The [752.01.05.00 antenna](#) is a broadband panel antenna suitable for indoor or outdoor coverage with TETRA.

Ideal for a large range of indoor multichannel UHF repeater networks.

Features:

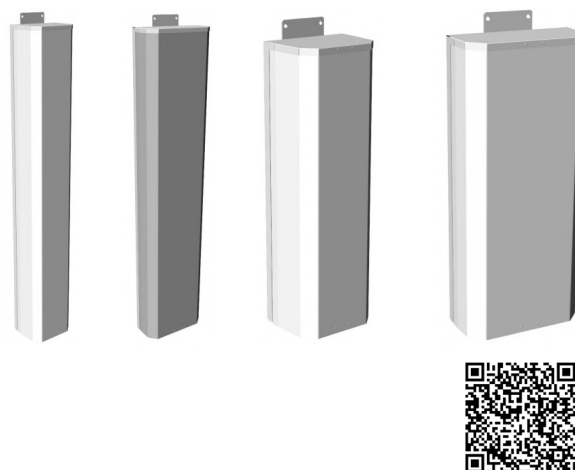
- PIM Rated (-143 dBc)



760/66 Panel Antennas Series

The [760/766 series](#) of UHF Panel antenna has been designed for TETRA / UHF Trunked Radio applications, offering a stable performance an PIM specification over a wide bandwidth.

Available in VPOL and XPOL formats.



Features:

- PIM Rated (-153 dBc)
- Lightning protection
- Survival wind speed between 270-300 km/h

Duplex Filters

Duplex Filters products like our [PRO-DPBP 380-400/410-430](#) are highly reliable due to their high electrical performance skills and are widely used in TETRA radio systems for the Public Safety market.

They are also used in other business areas such as in transportation, utilities, and the marine market.

Features:

- LTE450 / TETRA / PMR / DMR
- Low Tx & rx insertion loss
- High Tx-Rx isolation
- High power up to 200 W CW
- Mount in trays suitable for 19" standard racks



Band Pass Filters

Bandpass Filters like our [BPF 70/33-TETRA-N](#) protect e.g. the Rx receiver from high Power Tx noise interference transmitters from own or adjacent Tx's. Used on the Tx side, the Tx noise interference (Spurious, PIM etc.) will highly be rejected/attenuated/isolated according to the ability of the filters by their response.

Bandpass Filters is widely used in TETRA and LTE450 radio systems for Public Safety. They are also highly used in other business areas, for instance for aviation, the military market, industry facilities, and for the marine market.

Features:

- LTE450 / TETRA / PMR / DMR
- Low insertion loss
- High Tx-RX isolation
- High power up to 200 W CW
- Mount in trays suitable for 19" standard racks



Band Reject Filters

Band Reject Filters like our [BRF 70/6-150](#) are widely used to protect radio system, from unwanted extraneous disturbing high-power tx carrier signals, which for instance can damage your wanted receiving (Rx) signal of your radio system.

Band Reject Filters are widely used where several radio systems are present at the same base station mast for instance in the aviation market. But they are also used as extra protection of e.g. TETRA/LTE450 radio systems for Public Safety. Band Reject Filters are moreover used in Private Radio networks (DMR, PMR, and IoT).

Features:

- LTE450 / TETRA / PMR / DMR
- Power ranges between 50 W to 150 W
- High isolation skills
- Low insertion loss



About Amphenol Procom

At Amphenol Procom, we are committed to providing solutions that can be trusted no matter how extreme the environment, or how complex the complete networks solution might be. We exist to create innovative and reliable solutions together with our customers.

We are proud of what we do, how we do it, and the values we bring.

Your network relies on the quality of its components; if one goes down, it can take the rest with it. That's why our products are built for quality and tested to the extreme - so that performance is not compromised under any circumstances. With manufacturing in Denmark, UK, and the US, Amphenol Procom serve a wide range of market segments such as Public Safety, Private LTE/5G Networks, Utilities, and Transportation.

We have more than 7.000 products in our portfolio, mainly covering base station antennas, portable & mobile antennas, combiners, filters and DAS solutions.

Amphenol Procom is a division of the Amphenol Corporation, a \$10 billion-dollar organization that is one of the largest manufacturers of interconnect products in the world. The company designs, manufactures and markets electrical, electronic and fiber optic connectors, coaxial and flat-ribbon cable, and interconnect systems.



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