

# 3.5 GHz



Pseudo  
Omni



Small Cell



Panel/  
Beamforming



Tri-Sector  
Canister



## New Frontier

The 3.5 GHz spectrum offers a significantly lower cost of ownership in many jurisdictions compared to typical mobile wireless spectrum. With rural subscriber densities low cost spectrum is essential for profitable service offering. In urban settings 3.5GHz relatively short propagation characteristics makes it ideally suited for densification and fill-in without interfering with adjacent access points.



## Harmonization

Over the past 5 years international spectrum management authorities have been working to harmonize frequency allocations in the 3.5 GHz range. This global alignment of spectrum will provide participating jurisdictions access to a competitive ecosystem and will deliver saving driven by economies of scale. It is believed that with shared spectrum both in-building and outdoor coverage and capacity expansion can be achieved at a massive scale.



## New Applications

3.5 GHz spectrum is a strong candidate for 5G. New applications can be supported with 5G including low bit rate IoT and low latency application such as gaming and virtual reality.

## 10 years experience in 3.5 GHz

Alpha has pioneered pseudo-omni, small cell, panel/beamforming and tri-sector canister in both 2.5 and 3.5 GHz antenna solutions.