

RAPID BACKHAUL

-THE EVOLUTION OF POINT-TO-MULTIPOINT (PMP) AS ONE OF THE MOST EFFICIENT AND QUICKEST BACKHAUL TECHNOLOGIES TO DEPLOY

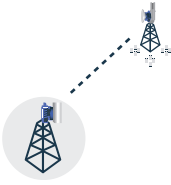


Modern PMP microwave is one of the most innovative and cost-effective backhaul technologies on the market, enabling operators to rapidly build carrier-grade mobile backhaul and access networks.

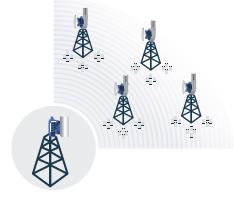
Years of technical advancement has established PMP microwave as one of the quickest and easiest technologies to deploy, allowing operators to launch new services ahead of the competition and grow valuable revenues.

Leading the evolution has been VectaStar.

SIMPLE ARCHITECTURE: FAST TIME TO MARKET

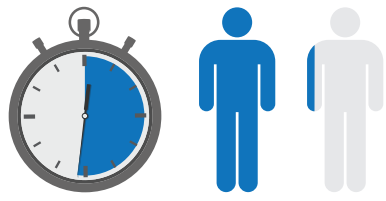


When deploying the first link in a backhaul sector, PMP microwave is as quick as point-to-point



For the second and subsequent links, PMP microwave is 50% quicker than point-to-point

Real-world data* shows that for an average urban hub site aggregating 32 backhauls links, PMP microwave saves 47% of time and resources compared to PTP.

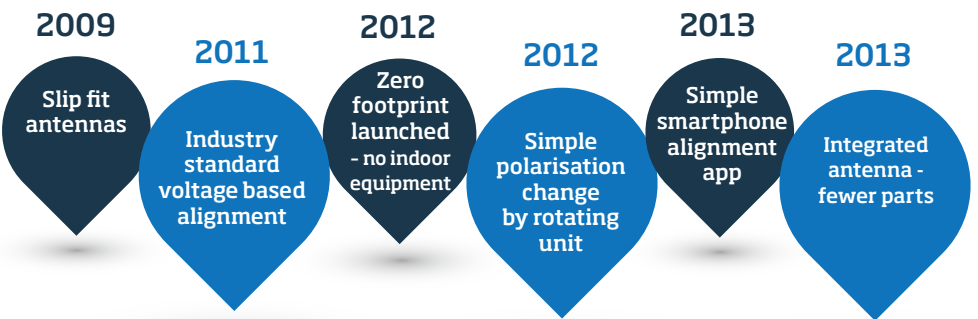
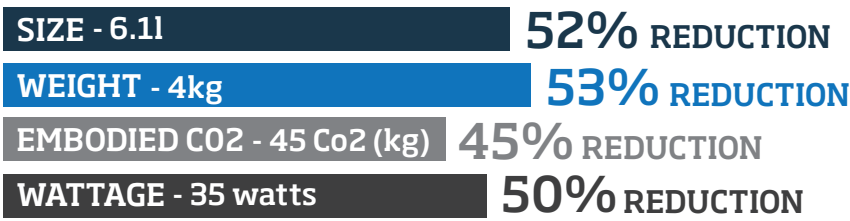


*Based on data from multiple system integrators with experience of deploying over 10,000 microwave links

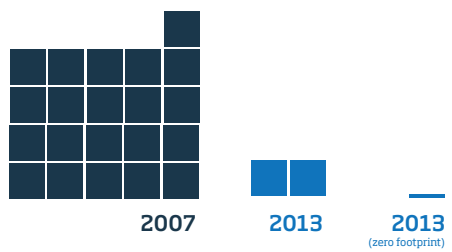
TECHNICALLY ADVANCED: QUICK & EASY TO DEPLOY

As the clear market leader, VectaStar has led the PMP multipoint evolution.

VectaStar's innovation and technical advancement over recent years means it is one of the quickest and easiest backhaul platforms to install, align and commission - saving time, resources and costs.



Since 2007 the rack space required to support 60 PMP terminals in a 2+0 configuration has reduced from 21 to 2 units. In zero footprint mode there is no hub equipment required.



VECTASTAR: MARKET LEADING PMP

600Mbps capacity and up to 28.6km range



PMP microwave independently proven to deliver total cost of ownership savings of 50% over other forms of backhaul***



Proven to improve spectral efficiency by at least 40% when compared to PTP**

* Maravedis Rethink. (2013) Wireless Backhaul from Intermodal Perspective.
** Naylon, J. (2011) The Effect of System Architecture on Net Spectral Efficiency for Fixed Services.
*** Senza Fili. (2011) Crucial economics for mobile data backhaul.