



# AERO Duo

Spectrum-Friendly Gigabit Backhaul



Take a giant step ahead  
in spectrum efficiency with  
3Roam's 1024QAM technology



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## Redefine your spectrum requirements

### 1024QAM radio with Adaptive<sup>3</sup> technology

Industry's widest coverage of

- Frequency bands: 6, 7, 11, 13, 15, 18, 23, 26, 28, 32, 38, 42 GHz
- Channel bandwidth: 3.5, 7, 14, 28, 56 MHz

AERO Duo integrates 3Roam's **Adaptive<sup>3</sup>** technology, combining adaptive power, adaptive coding and modulation for highest link uptime and smaller antennas.

High-power radios provide longer links, higher availability at maximum 1024QAM capacity.

3Roam's AERO Duo provide high transmit power operation at 1024QAM and 512QAM modes through dynamic distortion compensation.

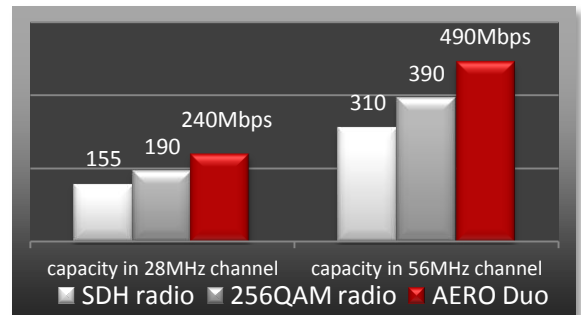
### More capacity, less spectrum

3Roam **1024QAM** radio technology provides unprecedented spectrum efficiency.

With a capacity increase of **25% compared to today's 256QAM** radios, AERO Duo provides even bigger gains compared to previous technology nodes, with **more than 50% gain compared to existing SDH links**.

AERO Duo also provides an excellent upgrade **alternative for low capacity links**, reducing your overall spectrum spending. Any link below 25Mbps can now be fitted into a **cost-optimised 3.5MHz band**.

From simple connectivity needs to the most demanding network requirements, AERO Duo provides **advanced radio and networking configurations**. The feature rich AERO Duo 4G variant combines with AERO Duo 1G to create fully redundant protected transmission stacks and aggregated dual-polarised links, **breaking the Gigabit frontier**.



AERO Duo provides 50% capacity improvement compared to SDH radios

### Matching your connectivity requirements



**AERO Duo 1G**  
Simply connected



**AERO Duo 4G**  
Powerful IP network node

#### Use Cases

State-of-the-art 1024QAM radio with transparent Ethernet bridge connectivity.  
Choice of in-band or true out-of-band management

The powerful network node with feature rich Ethernet capabilities for 1+1 protection, 2+0 aggregation, up to 4+4 set-up for your network's most critical Ethernet trunks

#### Connectivity

1 port GbEth for payload,  
1 port management

4 ports Gigabit Ethernet  
1 port fiber SFP

#### Mechanical & Power

Compact 1/2U rack form factor. High reliability fanless design.  
Flexible mounting options for advanced protection or 1 Gigabit aggregation in 1U rack space.  
100% system and power redundancy with real-time fiber-based traffic duplication.  
Master / Slave stacking possibilities for any configuration from 1+0 to 4+4 high capacity protected links.