THE WORLD’S MOST CONGESTED AIRSPACE

Europe is a unique aviation market. A continent made up of countries that are quite different in shape, size and population. And those populations travel. With over 30,000 flights taking place a day, which equates to 11 million flights a year, between closely spaced large airport hubs, Europe owns crowded airspace. Aircraft that are constantly manoeuvring to cover very short flights, find it challenging to hold their fix to a satellite. With traffic expected to grow by 50% over the next few years, this is a challenge that will continue to grow. The number of airlines in the region also creates an extremely competitive environment, resulting in price competition and tight margins. This means that airlines are constantly looking for ways to drive ancillary revenues, reduce costs and improve marginal profitability. EAN has been specifically designed to deliver both high capacity and ubiquitous coverage for this challenging region.

WHAT MAKES EAN DIFFERENT AND FAST?

FASTEST SPEED
EAN is the fastest connectivity service in Europe, delivering up to 100 Mbps bandwidth to the aircraft and the lowest latency in the market - 10 times lower than satcom-only solutions.

FASTEST INSTALLATION
With an installation time of only 7 hours, aircraft spend 80% less time on ground than with satcom-only solutions. And EAN’s remarkably ultra-lightweight, low drag equipment means 3 times less fuel impact than any other system in the region.

FASTEST SCALABILITY
As demand increases, EAN can scale to accommodate for additional bandwidth requirements, adding new terminal or towers that supply these incremental changes within months, rather than years. New markets can be brought instantly thanks to ubiquitous European coverage via a state of the art S-Band satellite.

FASTEST ROI
EAN has achieved the lowest cost of operations in Europe, so airlines can reach profit status faster than with any satcom-only system.

ADVANTAGES FOR EUROPEAN AIRLINES

First-in-class passenger experience.
EAN meets passenger demand for true in-flight broadband with quality of service that is seamless in the air and on the ground. With 90 Gbps total capacity fully dedicated to the aviation industry, and the lowest latency in the market, EAN provides consistent, and ubiquitous coverage. This affords passengers an on-the-air-as-on-the-ground experience, with access to a range of real-time and interactive applications, like gaming, video streaming and VPN access, creating brand differentiation and customer loyalty.

Make money and save money on every flight.
EAN’s consistent high speed connectivity is the pre-requisite for airlines to generate incremental ancillary revenues, such as higher speed premium tariffs, advertising, e-commerce and premium content. It also maximises operational efficiencies, helping airlines save money through route optimisation, predictive maintenance, and always-on crew applications, to name a few.

Lowest cost of operations and highest ROI.
With the lowest total cost of operations in Europe – thanks to a cheaper, lighter, lower drag equipment and a fast installation – airlines can achieve the highest ROI possible and faster than with satcom-only solutions.

THE FASTEST CONNECTIVITY SERVICE.
MADE FOR EUROPEAN SKIES.
**FLEXIBLE, SCALABLE CAPACITY**
DEPLOYED WHERE IT’S NEEDED MOST

EAN is uniquely flexible and scalable to meet growing passenger demand now and in the future. The network’s architecture allows full coverage thanks to the satellite footprint and offers quick and cost-effective increases in capacity. Each mast has 3 sectors as standard, to provide capacity to an area, which can be increased through either using densification (increasing the number of sites in the same area), sectorization (increasing the number of sectors per mast) or using a mix of both densification and sectorization. This is essential to respond to any growth in passenger demand, traffic growth or a higher number of aircraft installations.

**LIGHTWEIGHT EQUIPMENT FOR HEAVYWEIGHT PERFORMANCE**

Pocket-sized antennas and low weight, low volume boxes make EAN the ideal solution for narrow body aircraft manoeuvring frequently on shorter flights.

**GROUND NETWORK ANTENNA**

- Weight: 0.3kg
- Dimensions: 118x64x56mm
- Dual linear polarisation
- MIMO support

**REMOTE RADIO HEAD**

- Weight: 4.5kg
- Dimensions: 292x174x97mm
- ARINC 763 & LTE Release 10 compliant
- Passively cooled

**BASEBAND MODEM UNIT**

- Weight: 2.5kg
- Dimensions: 292x174x101mm
- ARINC 763 compliant
- Passively cooled

**MSS SATELLITE ANTENNA**

- Weight: 0.7kg
- Dimensions: 143x111x49mm

**REMOTE RADIO HEAD**

- Weight: 6.5kg
- Dimensions: 320x200x61mm

TO LEARN MORE ABOUT THE EUROPEAN AVIATION NETWORK:

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