Connecting
the skies

**Welcome to the Gigabit age
in aviation!**

SKYFive

Towards the all-digital sky

Over the past 30 years, the yearly amount of airline passengers has more than quadrupled. Despite catastrophic events, traffic is deemed to double again over the next 2 to 3 decades.

At the same time, the pressure on airlines to operate profitably, reduce their carbon footprint, and improve the passenger experience keeps increasing. Digitization offers solutions to these challenges but requires broadband connectivity in the skies as an enabler.

Real broadband for every aircraft

SkyFive heralds the Gigabit age in aviation, by completely redefining data throughput, transmission latency, and total cost of ownership for airlines. Air-to-Ground (A2G) communications complements existing satellite services and enables every aircraft to come online. Based on standard 4G and 5G technologies, we create a cellular network in the sky, which is dedicated to aviation, and which aircraft, helicopters, and drones can connect to with the help of an ultra-compact terminal mounted under the belly.

Key features and use cases

Throughput per aircraft in dense airspace	up to 1 Gbps (spectrum-dependent)
Radio latency	< 1 millisecond
Beam size	One base station sector 3.000 - 6.000 km²
Dedicated to aviation	Yes
Gate-to-gate connectivity	Yes
Data traffic kept in country	Yes
Service and terminal un-bundled	Yes
Time to retrofit aircraft	<8 hours 3-6 mechanics
Structural aircraft changes	No
Weight of terminal	7.25 kg
Drag caused by antenna	Negligible

Operational efficiency
- Connected operations
- Fuel and weight saving
- Predictive maintenance

Passenger experience
- Superfast Wi-Fi
- Digital services
- Seamless travel

Ancillary revenue
- Order-to-seat
- Inflight e-commerce
- High-context ads

Aircraft terminal

The A2G terminal can be installed on any aircraft type, also including smaller regional jets, turboprops, and business jets. Its low weight, small size, and low complexity, combined with flat rate data tariffs, significantly reduces the cost of connectivity for aircraft operators.

Ground network

The ground network consists of A2G base stations, which get installed on existing towers of our Mobile Operator partners. These base stations are built upon open-standard 4G and 5G components and configured with special antennas, which create a dense network of cells in the sky that provides its maximum throughput to each aircraft.