

Air-IQ: an aerial view

Made for the mission

Air-IQ is the ultimate connectivity solution for crewed and uncrewed intelligence, surveillance, and reconnaissance (ISR) aircraft. It delivers high throughput and prioritised uplink for decisive tactical advantage, all while meeting strict security standards. Air-IQ balances reliability with versatility, providing coverage wherever and whenever it's needed.

Flexibility for better optimisation

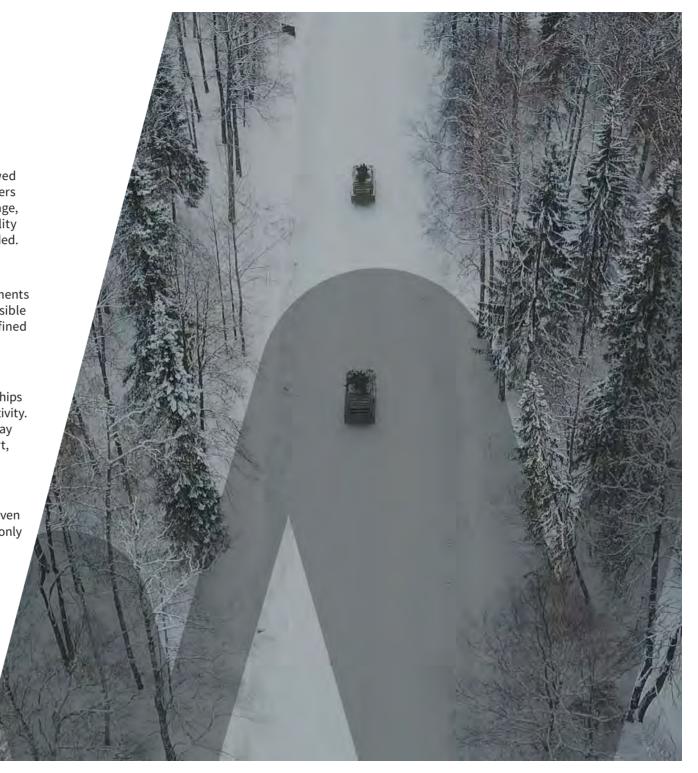
Designed to be the ultimate ISR toolbox, Air-IQ service-level agreements (SLAs) flex around the needs of every mission. Air-IQ makes it possible to manage multiple aircraft through a single contract, with user-defined regional uplink prioritisation for greater commercial efficiency.

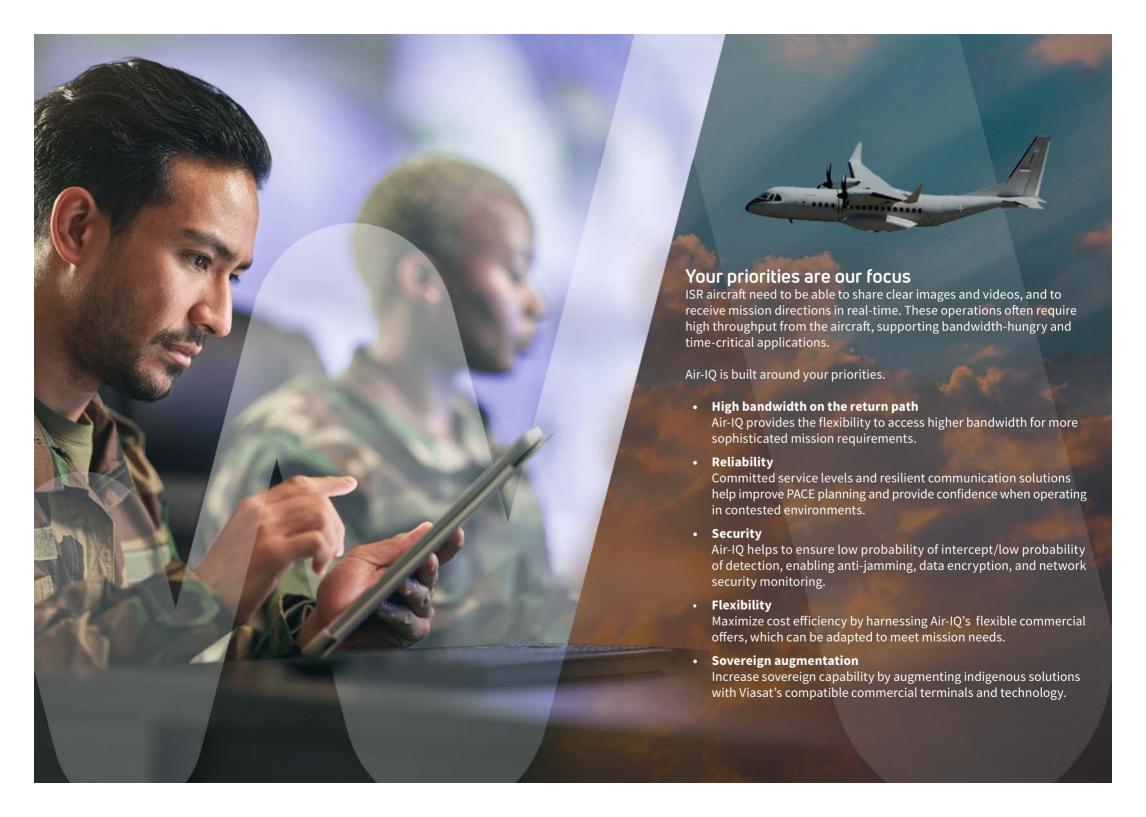
A partner you can trust

With over 40 years of satcom experience and long-standing relationships with governments, Viasat can take the complexity out of ISR connectivity. Our solutions are easy to use, maintain, and upgrade, so you can stay focused on the mission. We back this up with 24/7 technical support, as well as proactive monitoring and maintenance.

Delivering future-proof solutions

Our solutions evolve at the pace of our rapidly changing world — or even faster. Viasat's detailed technology roadmap ensures that Air-IQ not only meets your current needs but can help you prepare for the future.







Connectivity that changes on demand

Air-IQ enables seamless switching between different types of technology, delivering the most suitable, on-demand return throughput.

Your ISR platform has a global baseline capability upon take-off, with enhanced capability as it moves closer to the region of operation. Time-division multiple access (TDMA) technology provides a committed data rate in this area. You can even ramp up that capability via dedicated, lease-based single channel per carrier (SCPC) technology to facilitate highly sophisticated ISR on-spot activities. Multi-layer connectivity ensures a high level of resilience.

When the mission is completed, Air-IQ rolls back to either regional or global packages for the remainder of the non-critical journey.

- The global G2X and regional G2X Air Plus services provide industry leading SLAs with unlimited data and connectivity certainty.
- The K-MAX service uses either on-net or off-net capacity to deliver an extra layer of connectivity and performance, treating G2X Air or G2X Air Plus as a tiered fallback.

G2X AIR Global Coverage Baseline Throughput

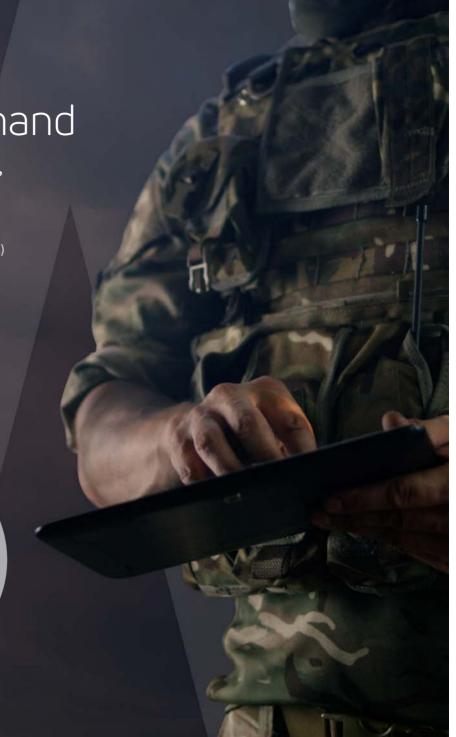


AIR-IQ Regional Operation High Throughput



AIR-IQ On-Spot Activity Very High Throughput





Airtime services

Air-IQ offers two service levels today. A premium private managed lease service and a shared regional managed service.

K-MAX

Provides return link bandwidths up to ten times the baseline global return CIR and above. The service is based on multi-beam Ka-band leasing, enabling high-return throughputs within the beam defined area (on-mission) and roaming to/from a global GX plan outside of that area (off-mission). Multiple simultaneous operations can be supported under a single monthly subscription-based lease. This airtime package provides ISR operators with more flexibility to choose and manage throughput to suit changing operational needs.

G2X Air Plus and G2X

Allows return links up to three times the baseline global CIR on a strictly regional basis. It enables a terminal to seamlessly roam between a higher throughput region (on-mission) and a global connectivity service outside the region (off-mission). Both monthly subscription and occasional use options are available.

Aircraft fit-out

Air-IQ offers essential hardware components for aircraft fit-out. Establish an effective mission communication system with an ISR terminal and enhanced G-MODMAN.

G-MODMAN integrates with various types of waveforms. The G-MODMAN OP (open platform) — effectively an arbitrator — manages the seamless switching.

The Air-IQ hardware portfolio offers the flexibility to choose the airborne terminal that best fits your ISR platform and makes modem integration easy. You can even incorporate your own preferred modem.

Air-IQ's openness gives governments great interoperability when interfacing with their own sovereign satcom capability. It enables switching, management, control, and monitoring independently, enhancing the security of your satcom connectivity.

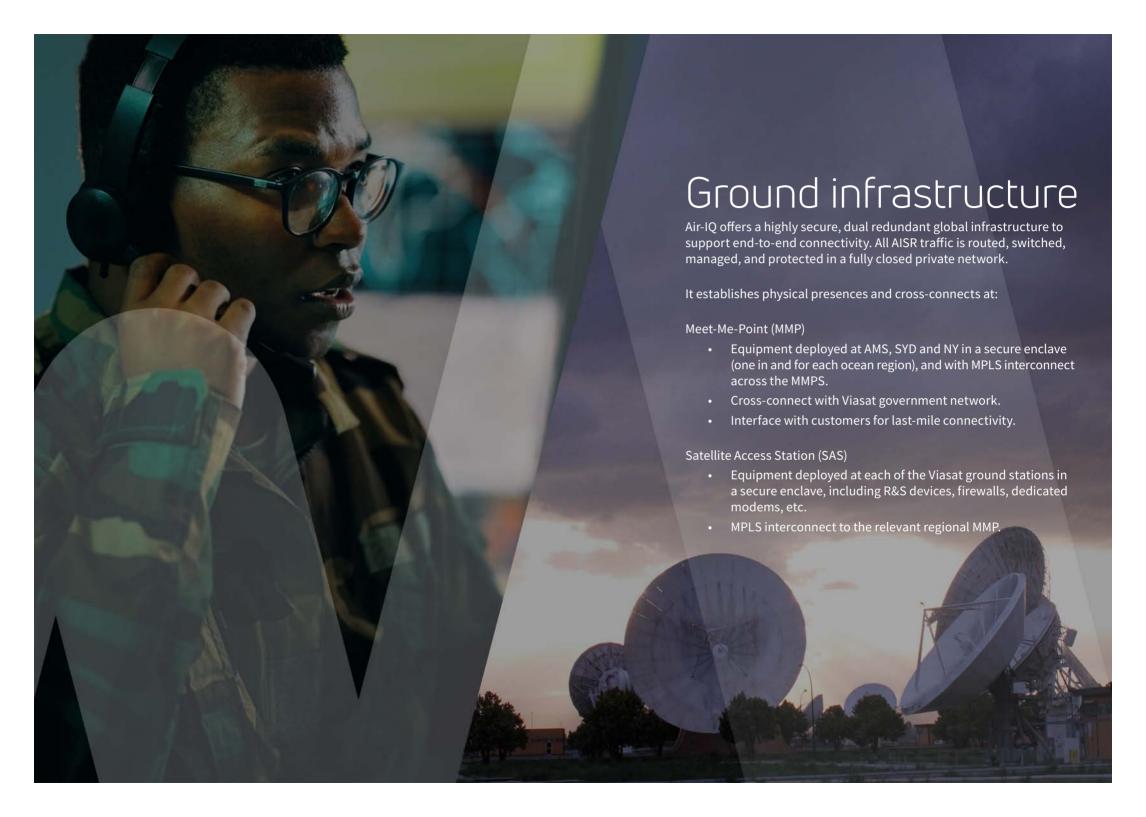
The all-in-one G-MODMAN and OP includes:

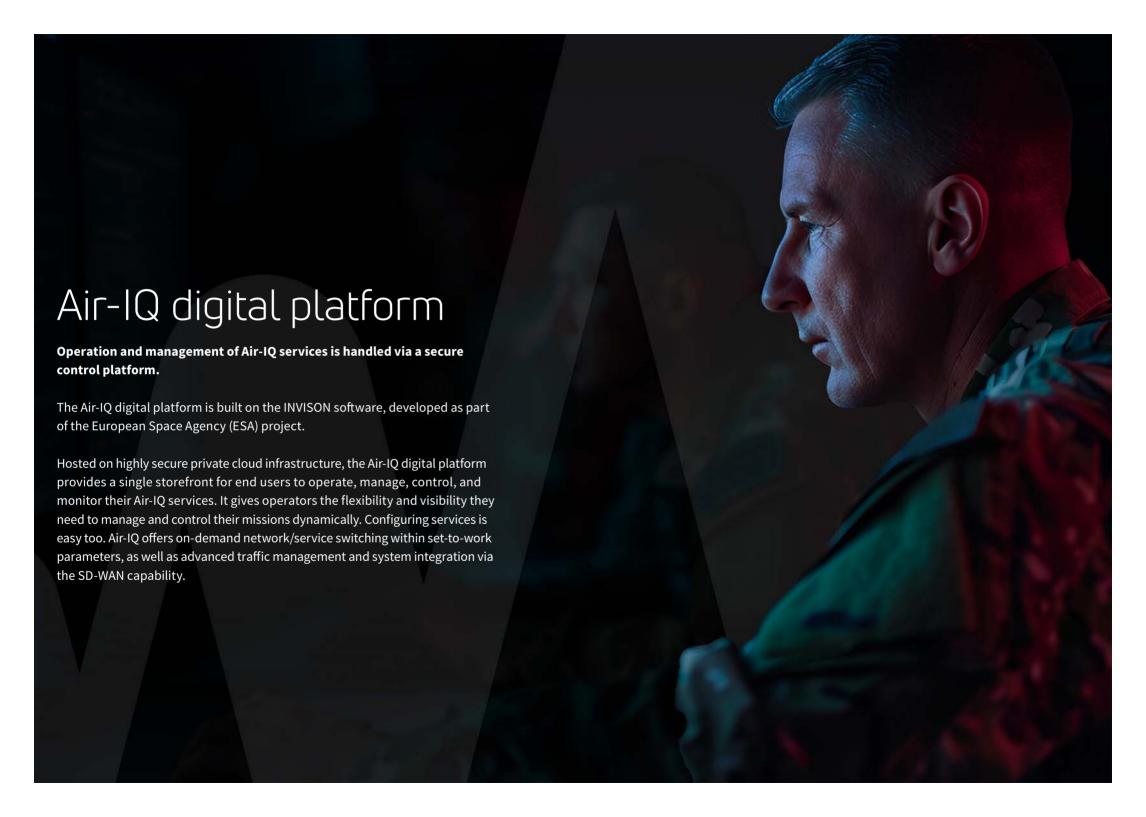
- G-MODMAN III, a single modem unit, including both the IQ-800 based GX modem and the G-MODMAN OP switching capability, plus the space for a second, internally integrated modem card, as well as two external slots for modem cards
- G-MODMAN connected to an external SCPC modem for seamless switching between a GX subscription, a G2X Air Plus subscription and a K-MAX lease service
- Multiple ways to switch based on geolocation via a web UI or remote APIs
- Increased processing power to enable future SD-WAN integration without additional equipment.

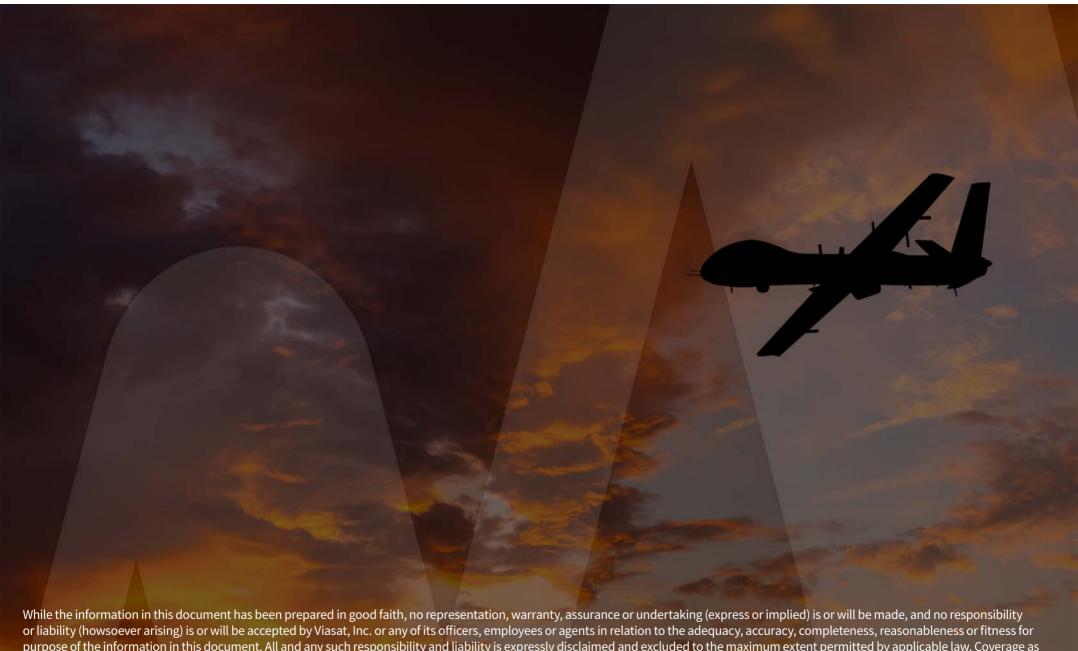
Air-IQ also offers a portfolio of terminal options:

- Antenna type (i.e. parabolic or flat panel array)
- Aperture (i.e. 30cm or 46cm, or equivalent)
- Frequency band (i.e. Ku, Commercial Ka, or Mil-Ka)
- Aircraft fitting (i.e. fix mount tail and fuselage or roll-on-roll-off)
- Antenna manufacturers (i.e. built by Viasat in-house or Viasat ecosystem)
- Aero SCPC modem (i.e. Viasat in-house made or Viasat ecosystem built)









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