

# G2X Air Plus



Seamless roaming for **real regional advantage**



# Regional reliability for every mission

When seamless connectivity is critical to mission success, you need a solution you can count on to deliver — **G2X Air Plus**.

G2X Air Plus is a managed subscription service for continuous connectivity, leveraging high-bandwidth return path connections via regional Global Xpress (GX) services to help ensure continuity. It delivers three times higher multi-megabit throughputs on a regional basis than the G2X Air's baseline global connectivity.

Whether it's for your crewed or uncrewed assets, you can rely on Viasat to deliver the complete package required for rapid rollout, including the airtime service, aircraft equipment, ground segment technology, and the control platform. With this secure, self-service control platform, it's simple to keep your eyes in the sky securely connected and streaming data without interruption.

## Assured quality of experience

G2X Air Plus is backed by industry-leading service level agreements (SLAs) with unlimited data and connectivity certainty. You set your requirements — the services you want to use and the aircraft using them — and we guarantee the connectivity to them, through agreed CIRs and MIRs, whatever the mission.

## Benefits

- Fully managed, priority subscription-based service for government missions
- High return link capacity for every ISR mission, giving you real-time access to critical data coming from each aircraft
- Regional committed information rate (CIR) return of up to 6 Mbps from the airframe\*
- Unlimited data allowance – with no exposure to caps or quality throttling
- A higher maximum information rate (MIR) can be agreed for each plan so you can take advantage of even higher data rates when conditions and capacity allow\*
- 99.5% uptime backed by service level agreements
- 24/7 specialised support provided by the Viasat International Government Technical Service Desk





# Control the skies with confidence

When ISR missions take flight, there are countless factors to address. G2X Air Plus simplifies planning and decision making.



## High data rate

- For most operations, ISR aircraft demand stable, always-on connectivity but with instances of higher bandwidth requirements
- **G2X Air Plus delivers up to 6 Mbps in user-defined regions, and even faster speeds through MIRs when available**
- **May be integrated with the K-MAX service for even higher data rates**

## Reliability

- With more operations conducted in contested and congested environments, reliable connectivity becomes all the more important
- **G2X Air Plus is a versatile, resilient communication solution that can contribute to PACE planning (if operating within the coverage of multiple satellites or paired with the K-MAX service)**

## Security

- Mission leaders need solutions that they can leverage to keep their assets safe and on mission – and their data secure
- **Viasat's advanced defence technologies deliver the data instancy, security, and certainty each mission demands**

## Sovereign augmentation

- In an ever more dangerous world, there are increasing calls for indigenous capability development and solutions that boost — not replace — sovereign capabilities
- **G2X Air Plus can combine with Viasat's K-MAX service, under the umbrella Air-IQ solution, to enable seamless access and switching to sovereign networks**

## Flexibility and price competitiveness

- With increasing pressure on defence spending, governments need more flexible solutions and pricing that can adapt to multiple use cases
- **G2X Air Plus is a flexible subscription-based service, with just a single cost each month and the potential to lower the total cost of operations**



# When the mission calls for more, G2X Air Plus delivers

G2X Air provides global, on-demand connectivity suitable for a wide array of government needs. And when your regional mission requires a more concentrated powerful return connection, G2X Air Plus can deliver up to 3 times your standard rate. Delivering the intelligence you demand at the speed you need.

For intense and challenging missions, G2X Air Plus ensures stable, high-speed connectivity. The solution is designed to overcome many of the common challenges associated with global ISR connectivity. With seamless switching between the global GX network and the higher-throughput G2X Air Plus service, each aircraft will receive the required connectivity, where and when it's needed.

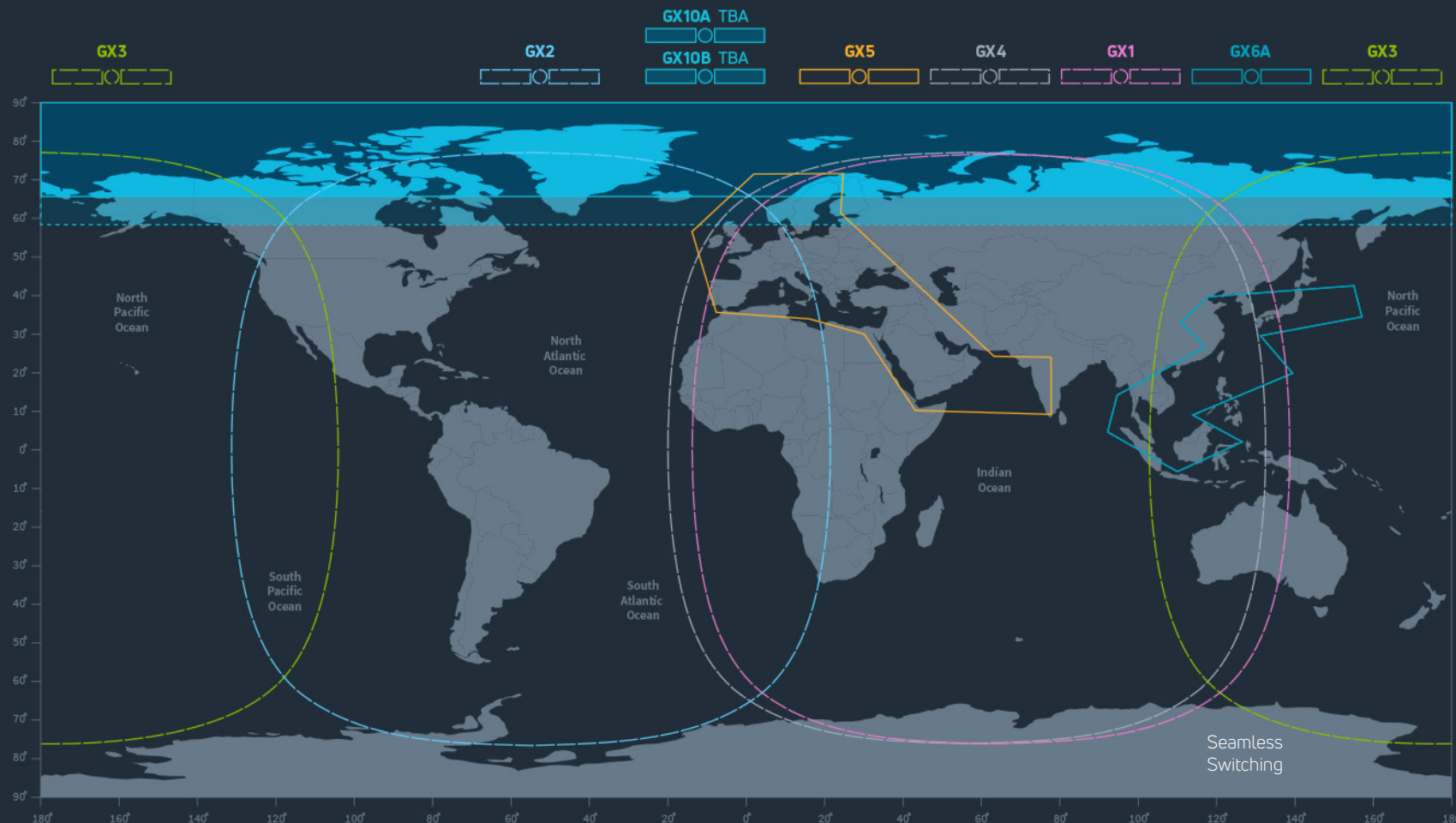




# Global coverage for global challenges

G2X Air Plus leverages Viasat's Global Xpress (GX) satellite network to deliver connectivity wherever in the world it is needed, including over polar regions.

The GX constellation of Ka-band geostationary satellites (Inmarsat-5 and Inmarsat-6) is supported by an advanced ground infrastructure, providing high-throughput services. Viasat manages the allocation of capacity in each powerful spot beam, to the terminal and seamlessly maintains the service, even as it moves between beams and hands over from satellite to satellite.

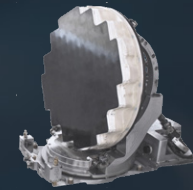


Each payload has two steerable beams interoperable with Mil-Ka networks for government use above 57° North.

For illustrative purposes only. Coverage is approximate and subject to change.  
Not representative of any single product or service. All future service dates are projections and are subject to change.

# G2X Air Plus hardware

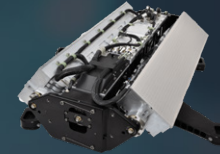
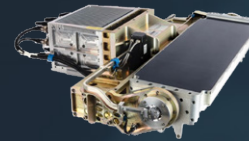
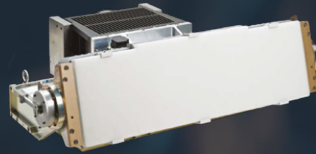
Choice and optionality - G2X Air Plus supports a number of antenna options to suit differing aircraft and mission requirements.



Antenna	Orbit GX30	Orbit GX46	JETWAVE MCS 8000	SD Plane Simple Ka
Primary Modem	G-MODMAN III	G-MODMAN III	Honeywell MODMAN	SD SMU
Secondary Modem	Teledyne Axiom/Viasat MBR	Teledyne Axiom/Viasat MBR	-	-
Description	Ka-band, 30cm parabolic antenna.	Ka-band, 46cm parabolic antenna.	Ka-band, 30cm parabolic antenna.	Ka-band, electronic steerable array.
G2X Air Plus	Yes	Yes	Yes	Yes
K-Max	Yes (Ka only)	Yes (Ka only)	No	No
VS-3	No (VS-3)	No (VS-3)	No (VS-3)	No (VS-3)
Modem Type	1RU and ARINC enclosures	1RU and ARINC enclosures	ARINC enclosures	ARINC enclosures
Form Factor	307mm x 328mm (W x H)	500mm x 490mm (W x H)	8.12" x 11.7" x 13.75"	376mm x 337mm (L x H)
Block Up Converter (BUC)	56dBW EIRP typical	56dBW EIRP typical	46dBW EIRP typical	
RF Bands	Com Ka (Rx 19.2-20.2GHz, Tx 29-30GHz) & MIL-Ka (RX x 20.2-21.2GHz, Tx 30-31GHz)	Com Ka (Rx 19.2-20.2GHz, Tx 29-30GHz) & MIL-Ka (RX x 20.2-21.2GHz, Tx 30-31GHz)	Com Ka (Rx 19.2-20.2GHz, Tx 29-30GHz)	Com Ka(Rx: 17.7 - 20.2 GHz, Tx: 27.5 - 30 GHz)
Power Source	+28VDC	+28VDC	115 V / 400Hz AC Power	115 V / 400Hz AC Power
Equipment Interface	Multi Ethernet data; ARINC 429 from aircraft navigation bus	Multi Ethernet data; ARINC 429 from aircraft navigation bus	Multi Ethernet data; ARINC 429 from aircraft navigation bus	Multi Ethernet data; ARINC 429 from aircraft navigation bus
Weight	Antenna: 10kg (22lbs); KPSU 5kg (11lbs)	Antenna: 14.25kg (31.5lbs); KPSU 5kg (11lbs)	Antenna: 4.5kg (10 lbs); MODMAN: 6.4kg (14.1 lbs); KRFU: 5.1kg (11.3lbs);	+28VDC
Management User Interface	Yes	Yes	KANDU: 4kg (8.7 lbs)	Antenna: 12kg (25.6lbs)
Equipment Interface	Multi Ethernet data; ARINC 429 from aircraft navigation bus	Multi Ethernet data; ARINC 429 from aircraft navigation bus	SMU: 5.89kg (13lbs)	Multi Ethernet data; ARINC 429 from aircraft navigation bus
Weight	Antenna: 10kg (22lbs); KPSU 5kg (11lbs)	Antenna: 14.25kg (31.5lbs); KPSU 5kg (11lbs)	Antenna: 47kg (104lbs); KRFU 7.3kg (16lbs); KANDU 7.7kg (17lbs)	Awaiting Thales confirmation

Tail Mount Antenna Options

## G2X Air Plus hardware continued



Antenna	Fuselage Mount Antenna Options	JETWAVE MCS 8200	JETWAVE MCX	GAT-5530 KuKa
Primary Modem		Honeywell MODMAN	Honeywell MODMAN	Viasat M3
Secondary Modem		-	-	G-MODMAN II
Description		Ka-band, FMA array	Ka-band, FMA array	Dual band (Ku/Ka) FMA mechanical steer- able array.
G2X Air Plus		Yes	Yes	Yes (Limited*)
K-Max		No	No	Yes (Ka only)
VS-3		No (VS-3)	No (VS-3)	Yes (VS-3)
Modem Type		ARINC enclosures	ARINC enclosures	ARINC enclosures
Form Factor		Antenna 36" swept volume x 9.5" high	Antenna 36" swept volume x 9.5" high	997mm x 287m (W x H)
Block Up Converter (BUC)		46dBW EIRP typical	48.6dBW EIRP typical	47dBW EIRP
RF Bands		Com Ka (Rx 19.2-20.2GHz, Tx 29-30GHz)	Com Ka (Rx 19.2-20.2GHz, Tx 29-30GHz) & MIL-Ka (RX x 20.2-21.2GHz, Tx 30-31GHz)	Ku (Rx 10.95-12.75GHz, Tx 14.0 - 14.5 GHz), Com Ka (Rx 17.7-20.2GHz, Tx 27.5-30GHz) & MIL-Ka (RX x 20.2-21.2GHz, Tx 30-31GHz)
Power Source		115 V / 400Hz AC Power	115 V / 400Hz AC Power	115 VAC, 360 Hz – 800 Hz single phase, or 28 VDC
Equipment Interface		Multi Ethernet data; ARINC 429 from aircraft navigation bus	Multi Ethernet data; ARINC 429 from aircraft navigation bus	Multi Ethernet data; ARINC 429 from air- craft navigation bus
Weight		Antenna: 37.5kg (82.6 lbs); MODMAN: 6.4kg (14.1 lbs); KRFU: 5.1kg (11.3lbs);	Antenna: 14.25kg (31.5lbs); KPSU 5kg (11lbs)	Antenna: 4.5kg (10 lbs); MODMAN: 6.4kg (14.1 lbs); KRFU: 5.1kg (11.3lbs);
Management User Interface		KANDU: 4kg (8.7 lbs)	Antenna = 88lbs; Modem manager = 14lbs; APM = 0.75lbs; BUC = 11.5Lbs; KANDU = 8.8lbs	Antenna = 163lbs; Modem manager = 17lbs; APS = 7.9lbs
Equipment Interface			Multi Ethernet data; ARINC 429 from aircraft navigation bus	SMU: 5.89kg (13lbs)
Weight		Antenna: 10kg (22lbs); KPSU 5kg (11lbs)	Antenna: 14.25kg (31.5lbs); KPSU 5kg (11lbs)	Antenna: 47kg (104lbs); KRFU 7.3kg (16lbs); KANDU 7.7kg (17lbs)



# G2X Air Plus is part of the ultimate connectivity platform

Viasat's G2X Air Plus service is a powerful regional connectivity service within the Air-IQ platform, delivering enhanced capabilities and high-speed uplink to crewed, uncrewed and multirole ISR airframes, precisely where and when they are needed.

Throughput dynamically adjusts to meet mission demands, optimising efficiency and reducing costs. Designed as a flexible, modular solution, Air-IQ adapts to your specific operational requirements, ensuring a seamless, reliable, highly secure experience at all times.

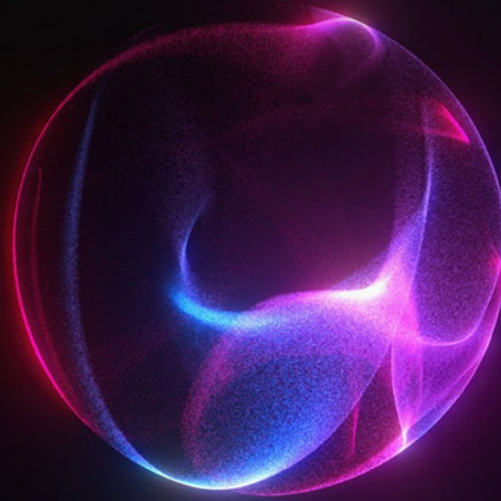
Air IQ is composed of a number of connectivity services, designed for different airframe and mission needs, including G2X Air Plus.

Air-IQ service	Market segments			
	Group 2 UAS	Group 3 UAS	Group 4/5 UAS	Fixed Wing
<b>G2X Air Plus</b> Optimised GX service, enabling high speeds on a regional basis <ul style="list-style-type: none"> <li>Up to 6 Mbps CIR within predefined regions</li> <li>Seamless switching between global and enhanced regional beams</li> <li>In-route group carriers (IGC) can be leveraged in designated operational beams</li> </ul> Fallback to the global GX service when operating outside region		✓	✓	✓
<b>L-MAX</b> Managed, private L-Band regional leasing, enabling high-performance beyond line of sight	✓	✓	✓	✓
<b>G2X Air</b> Global Xpress (GX) global services <ul style="list-style-type: none"> <li>Up to 2 Mbps CIR on a global basis</li> </ul>		✓	✓	✓
<b>K-MAX On and Off Net</b> Managed, private Ka-Band regional lease service, enabling high throughputs with seamless roaming to and from our global GX network (Ka-Band)		✓	✓	✓



# The power of knowing

Viasat builds solutions for today's complex missions.



## Increasing your intelligence

Being prepared is no longer enough. In today's disrupted environment — where data has become as important as firepower, and strategies are quickly outpaced by changing circumstances — you need to be able to make split-second decisions.

In this new, digitalised field of operations, Viasat delivers a smart and secure inter-connected communications architecture for rapid, reliable intelligence — intelligence your teams require to confidently take the right actions at the tactical edge.

## Working together at the speed of thought

From space and air to ground and sea, Viasat helps decision-makers act and communicate with cohesion and confidence throughout the chain of command.

Our global, multi-orbit, multi-dimensional satcom network, combined with advanced defence technologies, deliver the data instancy, security, and certainty the mission demands. Like a neural command and control system, our solutions flow real-time data throughout the field of operations.

## Connectivity that empowers the right decisions

Viasat is the indispensable, trusted partner that governments need, seamlessly connecting your teams via a fully integrated platform. We empower commanders to make better-informed decisions, faster, and more effectively than ever before.





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