


inmarsat

G2X LAND

G2X
LAND

INMARSAT GLOBAL GOVERNMENT
COMMUNICATIONS MADE CERTAIN

G2X LAND

BUILT FOR GOVERNMENT

Global Xpress (GX) is the world's first and only globally available, high-speed broadband network, owned and managed by a single operator.

The G2X Land satcom as a service model provides government land customers with seamless, worldwide, multi-mbps services whether on the move, on the pause or in a fixed location. Just like our long trusted BGAN service, G2X Land is easy to use, with centralised, portal based configuration and over the air management ensuring operator training is minimised and operational flexibility is maximised. G2X Land follows you wherever you go, there's no need to warn your satellite operator in advance.

BENEFITS

- This is Satellite capability as a service with access on demand
- Service models to suit your operation, with user selected Committed and Maximum Information Rates (CIR/MIR) and contract periods from Occasional Use through to long term subscriptions
- BGAN style ease of operation
- Over The Air terminal configuration - Attach to the network in minutes with no in field configuration or files to upload
- High speed Internet / IP network connectivity and file / data transfer
- Cyber security best practices
- Complemented by our L-band network, with simple integration across BGAN and GX networks for government users on land, in the air and at sea
- Terminals available to provide interoperability with Military Ka-band systems
- A range of terminal manufacturer partners to suit your application, environment and budget
- Remote support through our 24x7 Network Operations Centre



WHY GOVERNMENTS TRUST GX

A SATCOM SERVICE ON DEMAND DESIGNED FOR MOBILITY

RELIABLE

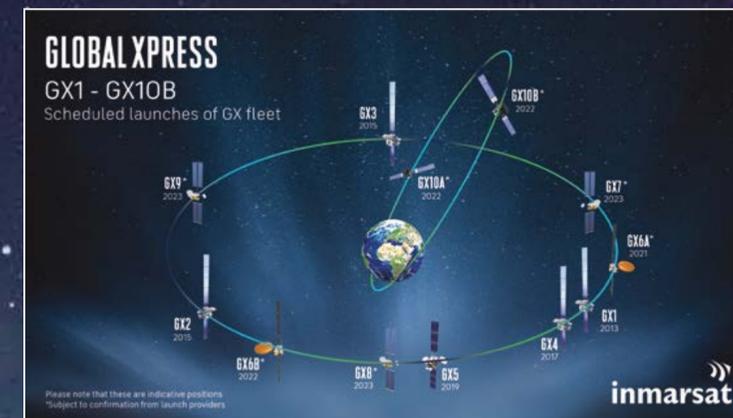
- Multiple satellites provide in-orbit diversity
- Global Ka-band network with additional satellites in build - all on one subscription
- Global BGAN L-band network provides high resilience via the same PoP
- Inmarsat quality standards, end-to-end
- Cyber security best practices
- Fully secure, diverse and dual-redundant ground network accessible from three regional Meet-Me Points

AFFORDABLE

- A global satcom system for the cost of single terminal subscription
- State of the art terminals to suit a range of use cases and budgets
- Reduced training requirements save costs end user training and support costs
- Flexible pricing models to suit your CONOPs

HIGH PERFORMANCE

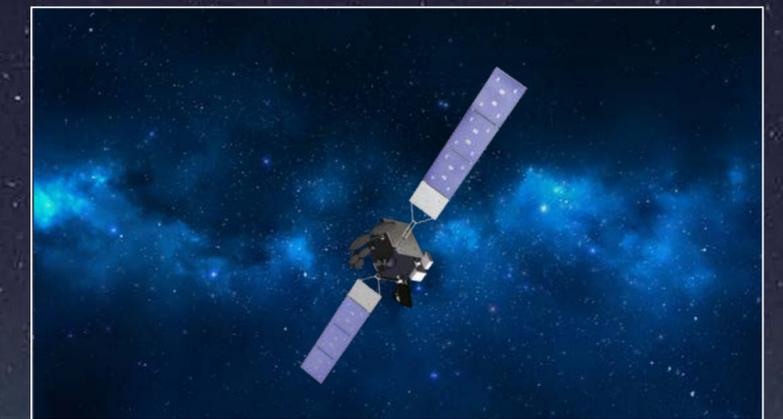
- Smaller, state of the art user terminals providing access to Global Xpress, military Ka-band and alternative networks from a single device
- Global access to multi-Mbps services
- Compact flyaway, to large fixed terminals offering the same ease of use and reliability whether manual assist or auto pointing.
- Military grade, Mil-Ka capable COTM terminals



FUTURE PROOF NETWORK WITH COMMITTED EXPANSION ROADMAP



FULLY MANAGED NETWORK SERVICE WITH EASE OF USE AT THE HEART OF THE DESIGN



NATIONAL, REGIONAL AND GLOBAL COVERAGE, WITH COVERAGE OF THE ARTIC CIRCLE COMING SOON

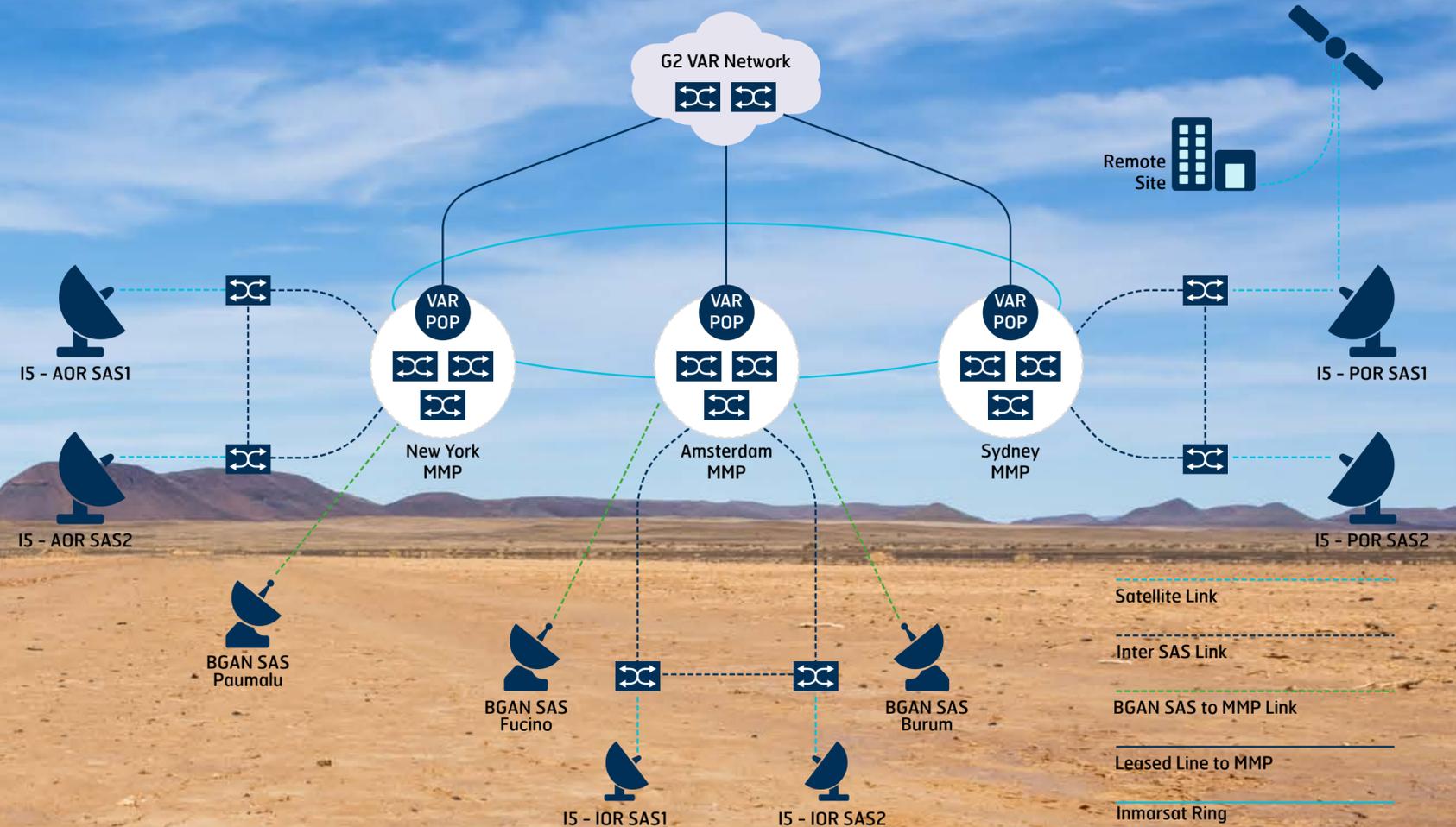


A SECURE, REDUNDANT GROUND INFRASTRUCTURE WITH A SINGLE ACCESS POINT

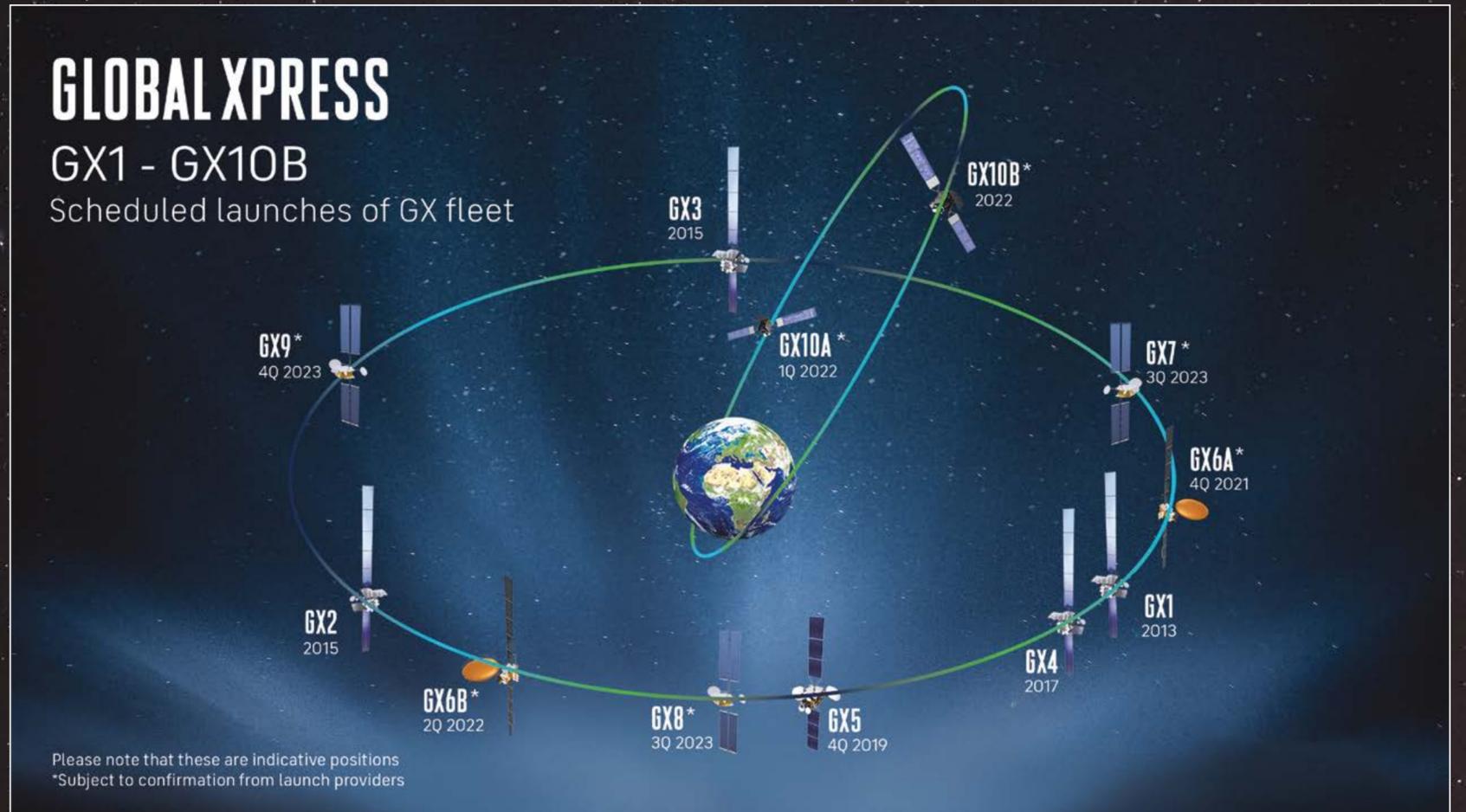
THE VALUE OF GX

COMMUNICATIONS CERTAINTY IN AN UNCERTAIN WORLD

Like with our highly successful BGAN product, the value of GX is the ability to leverage the same technology wherever and whenever you need high speed data services. Whether you operate locally or globally, there's no longer a need to manage multiple legacy service contracts with different SLAs and a range of VSAT standards



5 GX SATELLITES IN ORBIT AND 7 MORE IN BUILD

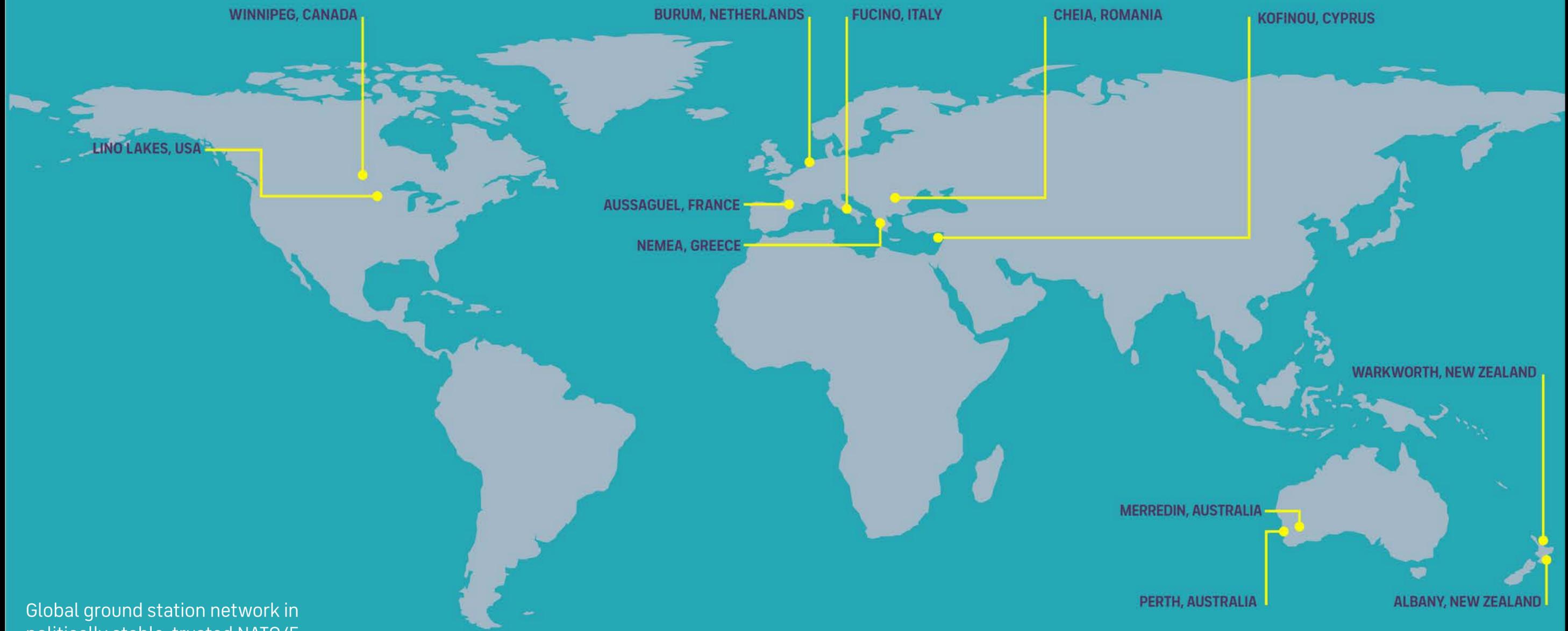


This next generation of GX satellites will (GX7, GX8 and GX9) provide the first software-defined constellation for global mobile connectivity. Each satellite will deliver twice the total capacity of the entire current GX network, simultaneously generating thousands of independent spot beams to meet user demands across the globe in real time

Our first non-GEO satellites (GX10A/B) will also cover the North Pole, ensuring continuous coverage above 65° North.

GX6A/B will enhance and assure the future of our BGAN L-band service >15 years as well as providing additional GX payloads

GLOBALXPRESS SATELLITE ACCESS STATIONS



Global ground station network in politically stable, trusted NATO/5 EYES countries

SIMPLE AIRTIME OFFER

WITH SHORT AND LONG TERM CONTRACTS AND OCCASIONAL USE.

STANDARD PLANS - 1 TO 36 MONTH TERMS, CIR BACKED BY SLA

PLAN NAME	CIR FWD	CIR RTN	MIR FWD	MIR RTN
G2X-L-128-128-1024-1024	128	128	1024	1024
G2X-L-256-256-1024-1024	256	256	1024	1024
G2X-L-512-256-2048-1024	512	256	2048	1024
G2X-L-512-512-1024-1024	512	512	1024	1024
G2X-L-512-512-2048-2048	512	512	2048	2048
G2X-L-1024-512-4096-2048	1024	512	4096	2048
G2X-L-1024-1024-2048-2048	1024	1024	2048	2048
G2X-L-1024-1024-4096-4096	1024	1024	4096	4096
G2X-L-2048-2048-4096-4096	2048	2048	4096	4096
G2X-L-4096-2048-8192-4096	4096	2048	8192	4096

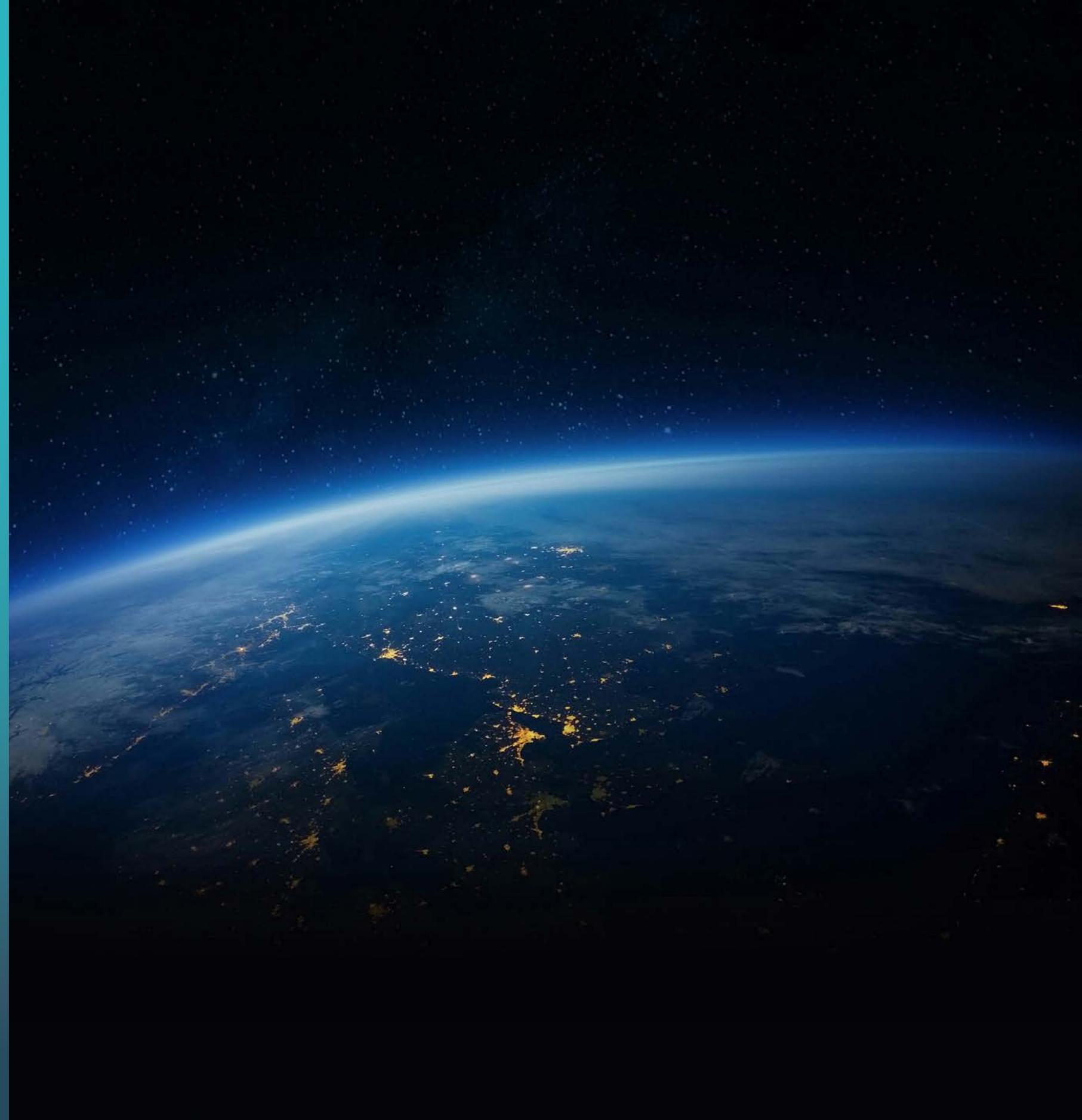
Tailored individual plans and shared plans for network and fleet solutions available on request

OCCASIONAL USE PLANS

PLAN NAME	CIR FWD	CIR RTN	MIR FWD	MIR RTN
G2X-L-512-512-2048-2048	512	512	2048	2048
G2X-L-1024-1024-4096-4096	1024	1024	4096	4096
G2X-L-2048-2048-4096-4096	2048	2048	4096	4096

90 days usage over 12 months with option to renew or daily overage available

Commercial models can be developed to meet your end user needs in consultation with the Inmarsat Global Government team



THE CHALLENGE

The Military has multiple operations in country and across borders.

Their operations include border security, anti-narcotics operations and peacekeeping missions.

Commanders rely on increased mobility and fast deployment with immediate access to beyond line of sight communications that are highly secure and resilient. Interoperability across land, sea and air is critical, ensuring remote reconnaissance capabilities for intelligence gathering.

Current VSAT services are not delivering fast access, mobility and reliability and other systems are not rugged, transportable or easy to deploy.

The service must be guaranteed and at a predictable, affordable price.

THE SOLUTION

G2X Land will provide a Multi-Mbps service under one subscription with always on access to the satellite network. No more guessing as to when and where instant communications will be required for data intensive missions.

Fast and easy to deploy terminals at HQ and FOB enables communications across agencies regardless of geography. Allows for seamless intelligence gathering and coordination.

Users get what they need, when they want it and wherever they are, at a predictable, budgeted price

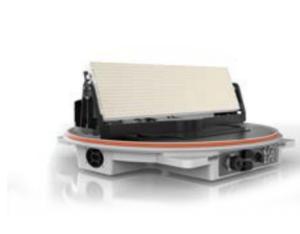


GX TERMINAL COMPARISON



	Cobham EXPLORER 6075	L3HARRIS DARKWING	Paradigm HORNET GX100	Paradigm SWARM	Datapath QCT-90GX	Datapath CCT-120GX	L3HARRIS Panther II
TERMINAL EFFICIENCY GROUP	Group 1	Group 1	Group 2	Group 1	Group 1	Group 2	Group 1/2
TERMINAL CATEGORY	CAT1	CAT5	CAT1(CX751) or CAT5(950mp)	CAT1(CX751) or CAT5(950mp)	CAT1	CAT1 (GX version) or CAT5 (GX upgrade kit)	CAT5
MODEM TYPE	iDirect CX751 GX Core Module; Integrated ODU	iDirect 950mp core module (integrated ODU)	iDirect CX751 or iDirect 950mp GX Core Module (Integrated ODU)	iDirect CX751 or iDirect 950mp GX Core Module (Integrated ODU)	iDirect CX751 GX Core Module; Integrated ODU	iDirect CX751 GX Core Module; Integrated ODU	iDirect 950mp core module
APERTURE	75cm, 4 piece segmented carbon fiber	28.3cm x 42.44cm (equivalent performance to a 30cm parabolic antenna)	100cm (7 piece carbon fibre)	45cm flat panel (equivalent performance to a 60cm parabolic)	90cm x 59cm Gregorian dual offset antenna	1.2m x 0.84m Gregorian dual offset antenna	Interchangeable petals, 60cm (TEG1) and 96 cm (TEG2)
BLOCK UPCONVERTER (BUC)	5W	10W	5W or 10W(950 version)	5W or 10W(950 version)	5W	5W	4W
RF BAND	Commercial Ka (Rx 19.2-20.2GHz, Tx 29-30GHz)	Wideband Ka (Rx 19.7-20.7 and Tx 29.5 - 30.5); WGS, Approval Pending	Commercial Ka (Rx 19.2-20.2GHz, Tx 29-30GHz) 950 version adds: Military Ka-band (Rx 20.2- 21.2 GHz, Tx 30-31 GHz) for GX Lease and Milsatcom Use. Multi-band kits available	Commercial Ka (Rx 19.2-20.2GHz, Tx 29-30GHz) 950 version adds: Military Ka-band (Rx 20.2- 21.2 GHz, Tx 30-31 GHz) for GX Lease and Milsatcom Use. Multi-band kits available	Commercial Ka (Rx 19.2-20.2GHz, Tx 29-30GHz)	Commercial Ka (Rx 19.2-20.2GHz, Tx 29-30GHz) Military Ka-band (Rx 20.2- 21.2 GHz, Tx 30-31 GHz) RF kit available for GX Lease and Milsatcom Use. Multi-band kits available	Wideband Ka (Rx 19.2-21.2GHz, Tx 29-31 GHz); WGS Approval Pending
TERMINAL POINTING	Autopoint with Dynamic Pointing Correction	Assisted Manual Point	Assisted Manual Point (Paradigm Interface Module)	Simplified and assisted Tool-Free Manual Point (Paradigm Interface Module)	Assisted Manual Point	Auto Acquire	Auto Acquire or Assisted Manual Point (L3Harris ViewSat)
POWER SOURCE	24 - 48 VDC	AC: 90-264 VAC; 47-44 OHz (with external AC adapter) DC: 10-36 VDC (with external DC adapter) Battery: Internal, 15 min run time (auto switchover with loss of AC power)	90-264 VAC, 47-63Hz Optional: 36-60VDC (48V nominal), 18-36VDC (24V nominal)	90-264 VAC, 47-63Hz Optional: 36-60VDC (48V nominal), 18-36VDC (24V nominal)	85-265 VAC (45-66Hz)	85-265 VAC (45-66Hz)	AC 90-264V; DC 18-48V; Battery Options Available
MANAGEMENT USER INTERFACE	Integrated external interface; PC web-based interface	Integrated external interface; PC web-based interface	Integrated external interface; PC web-based interface	Integrated external interface; PC web-based	Integrated external interface; PC web-based interface	Integrated external interface; PC web-based interface	Integrated external interface; PC web-based interface
EQUIPMENT INTERFACE	3 x 100Base-T Ethernet; WLAN Access Point and LAN interface	2 x Gigabit Ethernet; WIFI: 802.11a/b/g/n (20Mbit/sec device to modem throughput)	3 x 100Base-T Ethernet	3 x 100Base-T Ethernet	3 x 100BaseT Ethernet	3 x 100BaseT Ethernet	2 x 100BaseT Ethernet
PACKAGING	Dual IATA compliant cases (22.5 kg + 19 kg)	backpack or laptop-sized case	Backpack, Soft Case or Pelicase	Single case standard. Rugged or soft options	IATA Compliant backpack/ transit case (95 x 51x48cm)	IATA Compliant backpack/ transit case (95 x 51 x 48cm)	Single IATA compliant case (29.5kg)
SYSTEM WEIGHT	23 kg	11.34 kg (25 lb) w/o case; 21.77 kg (48 lb) w case	<19.1kg (w/o case)	<14.5kg (w/o case)	<32kg (in transit case)	53.7kg (in transit case)	19.5kg
ENVIRONMENTAL (OPERATIONAL)	Operational -33° to +55°C	Operational: -32°C to +50°C IP66 Storage: -40°C to +60°C	-32° to +55°C	-32° to +55°C	-32° to +55°C	-32° to +55°C	-32° to +50°C
WIND LOADING	Survival 160 km/h / 100 mph	-	35 mph gusting to 40 mph (with ballast)	40mph (operational); 100mph (survival)	Max 22.3mph; 44.7mph with integrated wind stays	45mph	Operational: 25mph (unanchored), 40mph (anchored)

GX TERMINAL COMPARISON



	ULV MICRO VSAT	Tampa Microwave Manpack	Get SAT Millisat-W GX	Get SAT Millisat-H GX	Cobham EXPLORER 8100	Paradigm CONNECT100T	Paradigm CONNECT
TERMINAL EFFICIENCY GROUP	Group 1	Group 1/2 (Type Approval Pending)	Group 1	Group 1	Group 2	Group 2	Groups 1/2/4
TERMINAL CATEGORY	CAT1(CX751) or CAT5(950mp)	CAT5	CAT1(CX751) or CAT5(non-GX modem)	CAT1(CX751) or CAT5(non-GX modem)	CAT1	CAT1	CAT1
MODEM TYPE	iDirect CX751 GX Core Module PIM integration; Fully integrated 950mp core module pending	iDirect 950mp core module (integrated ODU)	iDirect CX751 GX Core Module (Integrated ODU - GS751)	iDirect CX751 GX Core Module (Integrated ODU - GS751)	iDirect CX751 GX Core Module; Rack-mounted IDU	iDirect CX751 GX Core Module; Integrated ODU	iDirect CX751 GX Core Module; IDU
APERTURE	Offset Gregorian with Segmented Reflector. Equiv to 65cm circular	65cm (TEG1) or 95cm (TEG2), Segmented Carbon Fibre	50 x 13.5cm (19.7 x 5.3")	25 x 27 cm (9.8 x 10.6")	1.0m single piece carbon fibre reflector	98cm (Single piece), Powder Coated Steel	69cm, Powder Coated Steel/98cm, Powder Coated Steel/180cm, Glass fibre reinforced polyester
BLOCK UPCONVERTER (BUC)	5W	5W XCVR	25W	25W	5W	5W Transceiver	5W Transceiver
RF BAND	PIM+GX LNB/BUC kit: Commercial Ka (Rx 19.2-20.2GHz, Tx 29-30GHz) 950 variant: Wideband Ka (Rx 19.2-21.2GHz, Tx 29-31 GHz); for GX Lease and Milsatcom Use	Wideband Ka (Rx 19.7-20.7 and Tx 29.5 - 30.5); WGS, Approval Pending	Wideband Ka (Rx 19.7-20.7 and Tx 29.5 - 30.5); WGS, Approval Pending	Wideband Ka (Rx 19.7-20.7 and Tx 29.5 - 30.5); WGS, Approval Pending	Commercial Ka (Rx 19.2-20.2GHz, Tx 29-30GHz)	Commercial Ka (Rx 19.2-20.2GHz, Tx 29-30GHz)	Commercial Ka (Rx 19.2-20.2GHz, Tx 29-30GHz)
TERMINAL POINTING	Assisted Manual Point (Paradigm Interface Module until fully integrated)	Assisted Manual Point (TM Acquisition Wizard)	Tracking COTM, -8° to +90° elev, continuous 360° azimuth, <20 sec initial acq, <100ms re-acq	Tracking COTM, -8° to +90° elev, continuous 360° azimuth, <20 sec initial acq, <100ms re-acq	Autopoint with Dynamic Pointing Correction	Assisted Manual Point (Paradigm Interface Module)	Manual Point (Spectrum Analyser required)
POWER SOURCE	+18 to 36V DC External battery (Option) Optional mains adapter (90 to 264V AC)	AC 85-265V; DC 12-36V; Battery Options Available	16 - 48 VDC	16 - 48 VDC	AC 110/240V	90-264 VAC, 47-63Hz Optional: 36-60VDC (48V nominal), 18-36VDC (24V nominal)	AC 90-264V
MANAGEMENT USER INTERFACE	Integrated external interface (IDU); PC web-based interface	Integrated external interface; PC web-based interface	PC web-based interface	PC web-based interface	Integrated external interface (IDU); PC web-based interface	Integrated external interface; PC web-based interface	PC web-based interface
EQUIPMENT INTERFACE	PIM: 3 x 100Base-T Ethernet; 950mp: 1x 100Base-T Ethernet	2 x 100Base-T Ethernet	LAN - Integrated managed switch	LAN - Integrated managed switch	3 x 100Base-T Ethernet	3 x 100Base-T Ethernet	3 x 100Base-T Ethernet
PACKAGING	Single Case (Soft and Hard case options)	Single Case (Soft and Hard case options)	Freight packaging	Freight packaging	Freight packaging	Three cases	Freight packaging
SYSTEM WEIGHT	<25lbs (11kgs) excluding carry case (baseline config)	12.5k (w/o case)	17.3kg (38.14lb)	17.3kg (38.14lb)	60 kg / 132 lbs with GX feed / BUC / LNB	Case 1 (28 kg), Case 2 (29.5 kg), Case 3 (30 kg)	12kg/22kg/109kg (packaged, not inc post/mount)
ENVIRONMENTAL (OPERATIONAL)	-20° to 55°C	-20° to 50°C	-40° to 60°C	-40° to 60°C	-33° to +55°C	-32° to +55°C	-25° to 55°C
WIND LOADING	30mph, gusting to 45mph, with anchors	35mph (Operational); 60mph (Survival)	Enclosed in radome	Enclosed in radome	Operational: 112 km/h / 69 mph Survival, deployed: 130 km/h / 80 mph Survival, stowed: 161 km/h / 100 mph	40mph (operational); 80mph (survival)	50mph (operational); 125mph (survival)/40mph (operational); 80mph (survival)/50mph (operational); 125mph (survival)

COMMUNICATIONS MADE CERTAIN





HOW TO BUY

Inmarsat products and services are available through select Inmarsat distribution partners and service providers.

Visit our website to find the right partner for you.

inmarsat.com/buy



inmarsat.com/government

While the information in this document has been prepared in good faith, no representation, warranty, assurance or undertaking (express or implied) is or will be made, and no responsibility or liability (howsoever arising) is or will be accepted by the Inmarsat group or any of its officers, employees or agents in relation to the adequacy, accuracy, completeness, reasonableness or fitness for purpose of the information in this document. All and any such responsibility and liability is expressly disclaimed and excluded to the maximum extent permitted by applicable law. Coverage as shown on maps is subject to change at any time. INMARSAT is a trademark owned by the International Mobile Satellite Organization, licensed to Inmarsat Global Limited. The Inmarsat LOGO and all other Inmarsat trademarks in this document are owned by Inmarsat Global Limited. © Inmarsat Global Limited. All rights reserved.

G2X Land May 2021