

The background of the entire page is a photograph of several high-voltage power transmission towers. The towers are silhouetted against a bright orange and red sky, suggesting a sunset or sunrise. The power lines are visible as thin, dark lines stretching across the sky between the towers.

Push-to-Talk

Ready Where and When You Need It



Seamless coverage across North America

When land-based communications are not available during emergencies, push-to-talk (PTT) satellite networks perform. Thanks to our one-of-a-kind satellite network, police, search and rescue teams, firefighters, work crews, drivers and others can stay in touch and get the job done virtually anywhere.



• Our Ligado SkyTerra-1 satellite turns the entire continent into a single cell

THE LIGADO SKYTERRA-1 PTT ADVANTAGE


Satellite PTT is a real-time, voice-based service that provides point-to-multipoint and point-to-point communication at the push of a button—a cost-effective standalone solution or a reliable supplement to land-based two-way radio systems. Our Ligado SkyTerra-1 satellite acts like radio towers, turning the entire continent into a single cell.

MORE CAPACITY WHEN NEEDED

Ground-based beamforming, a capability unique to Ligado, allows for targeted bandwidth resource allocations, letting you provide more capacity when and where it is needed.

INTEROPERABLE COMMUNICATIONS THANKS TO SMART™

Satellite-Mutual-Aid-Radio-Talkgroups (SMART) is Ligado's nationwide and regional program of public safety talkgroups operating on the Ligado satellite network. These groups enable critical interoperable communications among homeland security officials, law enforcement, emergency responders, and public safety officials from various departments and agencies across the United States. Ligado's Satellite PTT services provide access to national and regional SMART Talk Groups.



MSAT radios that make the most of Ligado's Satellite PTT services

COBHAM SATCOM EXPLORER MSAT-G3

EXPLORER MSAT-G3 is a rugged push-to-talk and data communication solution. It is designed to cost-effectively expand and augment Land Mobile Radio (LMR) systems while offering effective IP data connectivity over ViaSat's L-band Mobile Satellite Services network. The radio includes the EXPLORER 122 Land Mobile Terminal and Cobham PTT unit and handset.

HARDWARE

- Looks and feels like a standard LMR system with a simple PTT handset. Easy to install and use with built-in support for LMR devices to ensure over-the-horizon radio communication
- Redundant connectivity by automatic routing between LTE/3G/2G and the Ligado satellite network
- Rugged: IP66 rated terminal is dust-tight and protected from high-pressure water jets from any direction
- Secure: AES-256 encryption—the highest commercial encryption currently available

CAPABILITIES

Group, Private Mode and Dispatch PTT Services

- Interoperates with legacy MSAT push-to-talk services and talkgroups
- Support for SMART™ talkgroups
- All talkgroups have around-the-clock access to the entire SkyTerra-1 footprint
- Reprogram talkgroups over the air and on the go
- Call log recording capabilities
- GPS location services for security and situational awareness

IP Data Services

- IP-based platform allows for simple implementation of a wide range of data applications
- Speeds up to 1Mbps on the forward link
- WiFi data connectivity



LIGADO MSAT-G2

The MSAT-G2 Satellite PTT System is a powerful and flexible communications tool that works where you do. It supports PTT Two-way Radio and circuit-switched voice and data communications.



HARDWARE

- Offered as a land mobile, fixed or maritime kit
- Dual service handset supports half-duplex PTT and traditional full-duplex telephony
- Serial port connection for access to dial-up data, GPS output or interconnectivity to third-party devices

CAPABILITIES

Group and Private Mode PTT Services

- Supports up to 16 talkgroups including a single private mode talkgroup
- Flexible coverage—regional or nationwide depending on customer needs
- Support for SMART™ talkgroups
- Priority-1 interruption feature
- Dial-In/Dial-Out features enable a user to join a talk group conversation from the PSTN
- Push-To-Track GPS services

Telephony Voice

- Initiate and receive telephone calls to and from the Public Switched Telephone Network (PSTN) as well as other satellite communication devices
- North American dialing plan with toll-free number assignment
- Voice mail, call forwarding, call barring

4800 Data Service

- Circuit-switched dial-up data at 4.8kbp

DETERMINE WHICH MSAT RADIO BEST SUPPORTS YOUR NEEDS

PTT CAPABILITIES	MSAT-G2 SUPPORTS	EXPLORER MSAT-G3 SUPPORTS
Normal Mode Talk Groups	15	Unlimited
Private Mode Talk Groups	✓	✓
Data Services	4.8kbps circuit switched	IP Data Services up to 1Mbps
Interoperability with P25	Third party via serial interface	✓
GPS Services	Viewable on device. Polling and reporting with add-on service.	Regular GPS reporting included, configurable to any interval as part of a data service plan.
Over-the-Air Programming	✓	✓
Talk Group Prioritization	via Monitor Codes	✓
SMART Talk Groups	✓	✓
Dispatcher Mode		✓
AES-256 Encryption		✓
WiFi		✓
Fail Over to Terrestrial		✓
Ad Hoc Talk Groups		✓
Call Log Recording		✓
Priority 1 Interrupt	✓	
Telephony Calls	✓	
Dial In	✓	
Dial Out	✓	
Maritime Ready	✓	

From the leader in PTT

Ligado Networks pioneered mobile satellite push-to-talk (PTT) service when it launched the North American MSAT Network nearly two decades ago. We led the way again in 2007, creating the industry benchmark for interoperable communications with SMART™ talkgroups. Today we've raised the bar again with EXPLORER MSAT-G3—the next generation of satellite PTT—in partnership with Cobham SATCOM and ViaSat.

Ligado's PTT and Voice Solutions are designed to provide reliable high-performance connectivity to:

- Homeland Security
- Public Safety
- Emergency & First Responders
- Search & Rescue
- Police
- Military
- Oil & Gas
- Utilities
- Rail
- Marine
- Natural Resources
- Fleet Management
- Trucking
- Mobile & Remote Workers

We're looking to connect with leading-edge communications, technology, and service companies to develop innovative business opportunities in the existing and emerging enterprise, business and government markets.

Learn more at ligado.com.

For more on the Cobham SATCOM EXPLORER MSAT-G3 or MSAT-G2 systems, call 800-216-6728 or visit ligado.com.





ligado.com

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