

SATCOM Base Station

Assured Communications for SATCOM-equipped HOOK2® radios



Scalability

Delivered as a self-contained, stand-alone SATCOM Base Station

Network-based architecture supports integration into existing C4 assets to build multi-base station, multi-user communication networks.

A new addition to the field-proven HOOK2® System, the SATCOM Base Station is designed for global, in-theater and on-the-move operations. This new Base Station provides secure Over-the-Horizon (OTH) data communications with AN/PRC-112G® radios. This system is a powerful, global, cost-effective solution that provides assured communications to military, special forces, law enforcement and government agencies.

The self-contained SATCOM Base Station is housed in a rugged carrying case, and includes a laptop computer, Base Station Radio, antenna, and cabling. The SATCOM Base Station can be powered by batteries or standard AC power.

With its portability, ease of set-up and configuration, and its light weight, the SATCOM Base Station is ideal for mobile, rapid deployment applications. Additionally, it is well suited for installation in a fixed-site location.

When used with the HOOK2 GPS Combat Search and Rescue (CSAR) System, the SATCOM Base Station provides a direct, secure, two-way, OTH communications path between isolated personnel and rescue forces. With its "Always-On" nature and its auto-acknowledgment feature, the Base Station provides the isolated personnel with an assured communications link. Its interrogation feature allows the Base Station user to extract location and status information from the remote HOOK2 AN/PRC-112G® Radio. Base Station users can send messages immediately, or queue messages for later transmission when the isolated personnel's radio is turned on and ready to receive.

SATCOM Base Station

Proven HOOK2® Technology

- Provides a direct, assured, Over-the-Horizon (OTH) communication path between rescue forces and isolated personnel equipped with SATCOM-enabled AN/PRC-112G® radios.
- Establishes reliable OTH communication based on the field-proven Hook2 data burst.
- Secures communications to prevent the compromise of location and other information.

Assured Communications

- Sends an auto-acknowledgment message to the Isolated personnel to confirm their distress message was received.
- Allows messages to be queued and sent later, when isolated personnel contact the SATCOM Base Station, avoiding "Phone Tag".

Cost-Effective

- Uses existing Military UHF satellites, which avoids commercial SATCOM charges.
- Dedicate SATCOM Base Station to single mission or user group.

Portability and Ease of Use

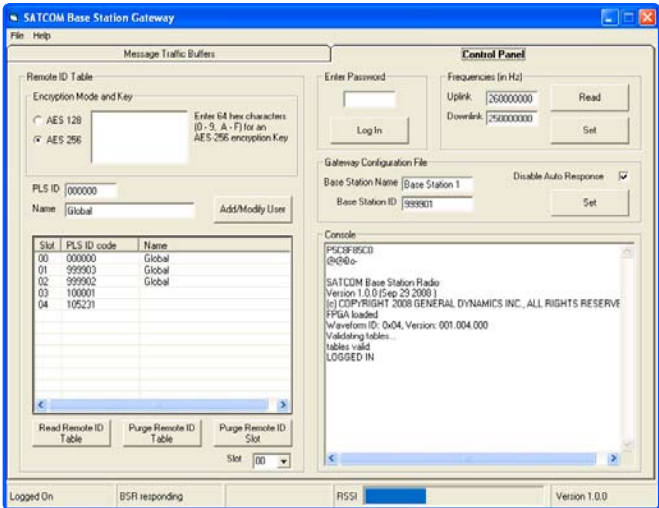
- Lightweight and rugged, and can be carried by one person.
- Minimal set-up and tear-down time facilitates on-the-move deployment.
- Powered by batteries or standard 110/220 VAC 50/60Hz AC.
- Includes an intuitive graphical user interface for configuring operating parameters.
- Users Interface has the look and feel of a typical e-mail program.
- Ease-of-use features include an integrated help system.

Scalable

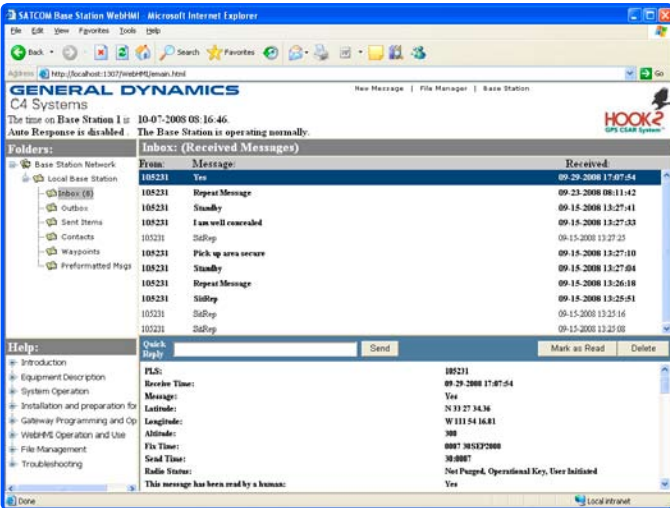
- Operates as a complete, self contained, stand-alone SATCOM Base Station
- Network-based architecture supports integration into existing C4 assets to build multi-base station, multi-user communication networks.
- Web-based Human/Machine Interface (HMI) allows operators to be located away from the SATCOM Base Station.
- Message traffic can be integrated into existing Common Operating Picture (COP) tools.

The SATCOM Base Station's net-centric architecture revolves around the Gateway application. Running on the Base Station's laptop, the Gateway provides the interface between the AN/PRC-112G's SATCOM

protocol and a standard network data format (XML). A web server, also running on the Base Station's laptop, delivers this data to users via the network in a standard HTML-based web form.



Gateway Control Panel



Web HMI

GENERAL DYNAMICS C4 Systems

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