

THE VALUE OF PERFORMANCE.

NORTHROP GRUMMAN

Common SIGINT System 1500

CSS Standard Product Offerings



Northrop Grumman's 35 years of design, development, integration and sustainment of Signals Intelligence (SIGINT) payloads is unparalleled in the defense industry. Our company has delivered and deployed over 250 payloads which support our country's warfighters in conflicts across the globe. This experience is the key to the development of Northrop Grumman's newest SIGINT payload - the Common SIGINT System (CSS)-1500.

The CSS-1500 is the next generation of small scale, lightweight SIGINT payloads and is a segment of Northrop Grumman's Airborne SIGINT product line (APL). Several products from this line are operationally deployed throughout the world supporting the warfighter. The CSS-1500 is available for rapid fielding now.

Unmatched Capability

Northrop Grumman's CSS-1500 SIGINT payload enables rapid interception, precision geolocation and processing of communication signals that directly support warfighter missions - all within an 85 lb. payload. The payload's 6-channel instantaneous direction finding (DF) capability, combined with its steep depression angle DF processing, enables single ship, multi-INT operations - crucial for the cross cuing of today's EO/IR and full motion video (FMV) sensors. These capabilities support the warfighter with up-to-date, precision targeting data, to ensure mission success.

Lower Life Cycle Costs

The CSS-1500's architecture also ensures that life-cycle costs are kept to a minimum. The CSS-

1500 offers greater flexibility and expandability through its open standards-based software architecture. Because the CSS-1500 is a derivative of the APL, the system will benefit from upgrades to other products in the APL, lowering sustainment costs.

System Integration

Northrop Grumman's flexible command and control products provide real-time control, situation assessment and analysis tools to precisely identify, locate and archive desired emitters in heavy co-channel signal environments. Combined with these products, the CSS-1500 provides operators these capabilities across a broad class of complex signals in real time. The CSS-1500 can be tailored to specific user requirements.

CSS-1500 Highlights

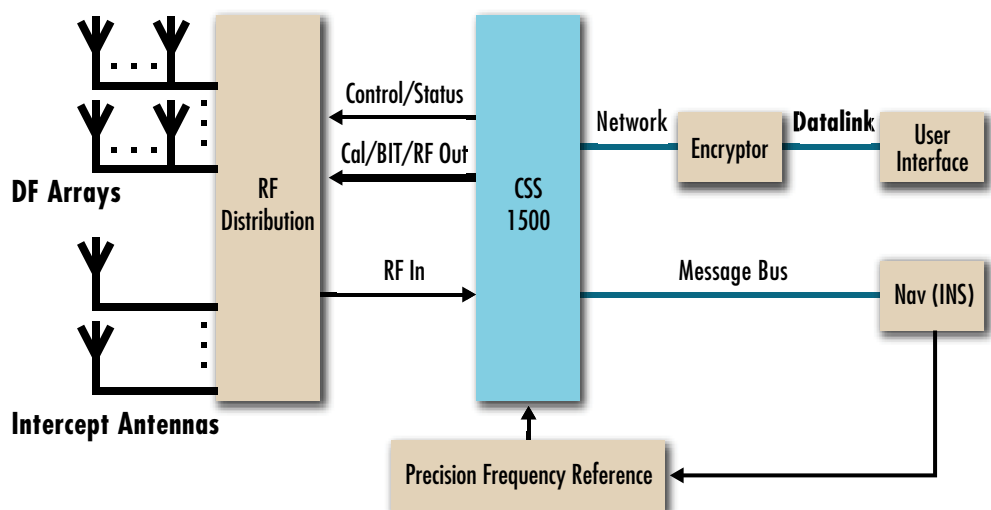
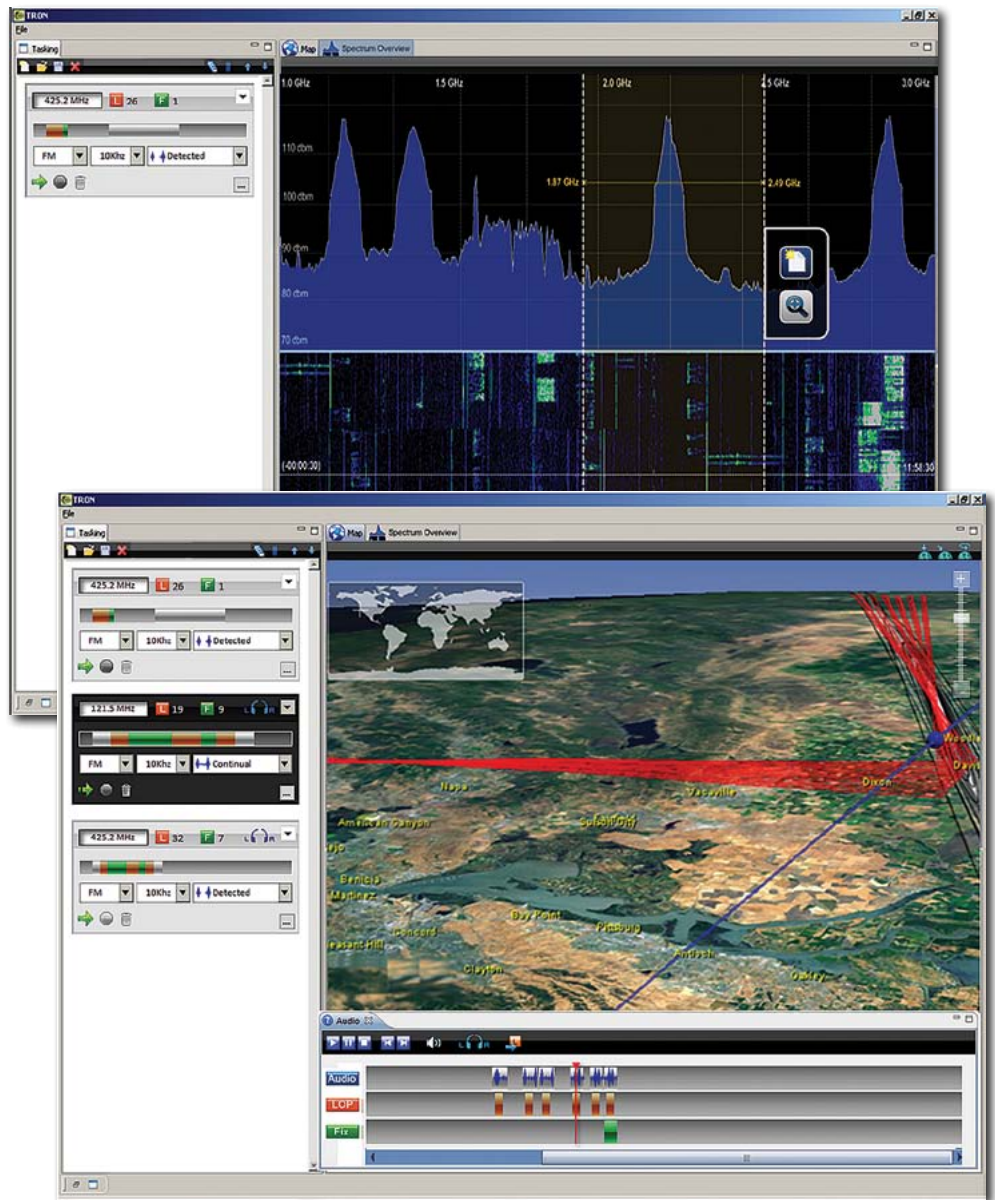
- Instantaneous, single-ship geolocation
- Provides emitter mapping of signals across the 20-3000 MHz frequency range
- Complex signal recognition and signal characterization
- Signal demodulation and copy of up to 30 channels
- High accuracy performance-supports IMINT cross-cueing
- Applications for airborne, fixed or mobile platforms
- Compliant with the AOCO COMINT Joint Interface Control Document (JICD), version 4.0
- Interoperable with GGB 3.0, DCGS-A and AF-DCGS

SIGINT Specifications

- Windows-based operator GUI
- Built-in-test/auto calibration
- Weight: 85 pounds
- Dimensions: 15.4 x 19.7 x 10.7
- Power Consumption: 1150 watts
- Operating Temperature range: -30 - +50 degrees
- Operating Altitude: 0 - 45,000 feet
- Ethernet interface

For more information, please contact:

Northrop Grumman
Information Systems
5441 Luce Avenue
McClellan, CA 95652
408-531-2903
916-570-4054



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