



**ASIP-1C**



Basic COMINT:  
 • TCS  
 • Limited Special Signals  
 • Limited Geo

**ASIP-2C**



Adds:  
 • COMINT DF  
 • Adds simultaneity  
 • Add'l Spec Sig growth

**ASIP Future**



Adds:  
 • COMINT TAS  
 • Add'l Special Signals



# Air Force

-  U-2
-  RQ-4 Global Hawk
-  MQ-1B Predator
-  MQ-1C Predator
-  MQ-9 Reaper

# Army

-  Guardrail

**AIRBORNE SIGINT PAYLOADS FOR MANNED AND UNMANNED AIRCRAFT FROM THE PREMIER DEVELOPER – NORTHROP GRUMMAN**

With decades of experience in developing advanced airborne reconnaissance systems, Northrop Grumman delivers proven technology for communications and electronic intelligence (COMINT and ELINT) systems. Over the past 35 years the company has delivered more than 250 payloads, and more are planned for future deployment.

Northrop Grumman's SIGINT expertise spans many relevant capabilities:

- Modern signal waveform analysis and processing
- Algorithm development
- Hardware development and integration
- Software and hardware architectures
- Full system integration, fielding and life-cycle support.

With experience on rotary- and fixed-wing aircraft, Northrop Grumman's airborne SIGINT payloads support manned and remote operations for tactical and strategic missions. They range in size and capability from 25 lb., 30 W, single-channel systems to 1000+ lb., 6000+ W, wideband systems.

Using advanced, proven methods that overcome problems associated with complex and wide, instantaneous bandwidth modulations, Northrop Grumman's COMINT solutions enable rapid interception, geolocation and processing of communication signals.

Northrop Grumman's solutions use advanced ELINT signal processing and high signal throughput on COTS processors. Even in dense signal environments, the company's solutions enable automatic, fast, wideband search, high-confidence identification and precision emitter location of complex radar signals.

### **ASIP – A Family of Sensors for a Diverse Set of Platforms and Customers**

Northrop Grumman's Airborne Signals Intelligence Payload (ASIP) is an open service oriented architecture SIGINT system with scalable hardware and software components to meet evolving SIGINT requirements. ASIP has become a family of sensors to satisfy a diverse set of platforms and customers.

The heart of Northrop Grumman's ASIP product line is the Baseline ASIP sensor, which is scheduled for operational deployment in 2009. Developed first for the U.S. Air Force U2 program, the payload is also being produced for Global Hawk. First flight of the Baseline ASIP sensor on Global Hawk occurred in September 2008. The company is also developing scaled variants, ASIP 1C and 2C, for the MQ-1 Predator and MQ-9 Reaper unmanned aircraft.

The U.S. Army has chosen ASIP to be the SIGINT core of its Guardrail Modernization program. The Guardrail Modernization (GRCS-I) COMINT subsystem is scheduled for first flight later this year.

Northrop Grumman is evolving its collection of related programs into a mature product line that offers the benefits of shared product improvements, resources and coordinated management. The company offers solid value in the ASIP product line which:

- Maximizes customer investments across the product line
- Minimizes risk through high technology readiness level product applications
- Leverages common support services in many areas, including sustainment, hardware repairs, software updates, spares and production across multiple contracts
- Leverages common resources, such as depot support facilities, manufacturing facilities and integration and test labs.

For more information, please contact:

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