The CS-3045 Airborne ELINT/ESM Subsystem detects, captures and identifies modern radar signals in the 0.5 to 18 GHz or optionally millimeter wave range.

The Rockwell Collins CS-3045 Airborne ELINT Subsystem consists of omni and direction finding (DF) antennas, receivers, signal processors and operator workstations designed for use in airborne environments. CS-3045 subsystems may be used for ELINT or ESM applications and consist of mature, field proven equipment and software. Typical CS-3045 subsystem frequency coverage is supported from 0.5 to 18 GHz or from 0.5 to MM range, and options for lower frequency coverage are available. Rockwell Collins EW-SIGINT has antenna, receiver and signal processing building blocks available to meet a wide range of airborne surveillance, ELINT and ESM applications. The basic ELINT subsystem building blocks are connected via industry standard Ethernet LAN network interface for maximum system flexibility and ease of growth. The CS-3045 subsystem comes with powerful Java™ based GUI software that has been designed to provide complete control of simple or complex ELINT and ESM subsystems. The analysis software tools provide excellent visualization and statistical displays of collected emitter intercept data.

The CS-3045 subsystem consists of standard product equipment that has been fielded and is in production as stand alone equipment or as part of larger systems. To meet the widest range of customer requirements, there are multiple part numbers available for antennas, RF distribution networks, microwave receivers, radar pulse analyzers and operator workstations. With the ability to connect all equipment over an Ethernet LAN network, the CS-3045 subsystem equipment may be easily configured to build simple or very complex ELINT subsystems. The existing software is easily set up to work with a wide range of different equipment types and system configurations. Different interfaces to the host aircraft are available so the CS-3045 subsystem may be connected to the aircraft NAV system to get latitude, longitude, heading and time data.
**CS-3045 AIRBORNE ELINT SUBSYSTEM**

**CS-1018ABN**
- 0.5 to 18 GHz Airborne Spinning DF Antenna

**CS-1040ABN**
- 0.5 to MM Range Airborne Spinning DF Antenna

**CS-3120**
- 2 to 18 GHz Airborne Interferometer Antenna

**CS-1940**
- Antenna Control Unit
  - Interfaces with the Spinning DF Antennas

**CS-1950**
- Antenna Interface Unit for Control of CS-1018 and CS-1040 Antennas

**CS-1218**
- Airborne Omni Antenna, 0.5 to 18 GHz

**CS-1420**
- Omni Receiver Unit, 0.5 to 18 GHz

**CS-1960, CS-1968**
- RF Distribution Unit, 0.5 to 18 GHz, 6 Inputs, 4-8 Outputs

**CS-3001**
- Pulse Analyzer Unit (PAU)

**CS-3002**
- Dual Pulse Analyzer Unit

**DPAU-4001**
- Digital Pulse Analyzer Unit

**CS-5020C**
- Rackmount Microwave Tuner, 0.5 to 18 GHz (<0.5 Phase Noise, <6 ns Group Delay)

**CS-5111**
- VME Microwave Tuner, 0.5 to 18 GHz (<0.5 Phase Noise, <6 ns Group Delay)

**RC-5800**
- VME Microwave Tuner, 0.5 to 18 GHz

**PRISM-6090**
- RF Search System, 0.5 to 18 GHz

**CS-1095**
- Rackmount IF/Tape Converter

**PRODUCT ATTRIBUTES**

- Airborne ELINT and ESM Subsystems to 18 GHz or MM range
- Detects, captures and identifies modern radar signals
- Operates in very dense RF signal environments
- Includes powerful signal analysis tools and displays
- Interfaces to aircraft NAV system for NAV data
- Powerful, easy to use operator interface GUI
- Wide range of ELINT subsystem functions available
- High precision radar signal measurement and analysis
- Automatic, manual and intrapulse operating modes
- Processes 500, 75, 25 and 10 MHz IF bandwidths
- Measures line of bearing for emitter location
- Processes, qualifies and stores 2.5+ million PDWs per second
- Continuous data storage to local and network disks
- System based on mature, field proved equipment, software
- Flexible, open architecture design supports future growth
- Includes pre-mission preparation and post-mission analysis software

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE.**

**Building trust every day.**

Rockwell Collins delivers smart communication and aviation electronic solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

**For more information contact:**

Rockwell Collins
3200 East Renner Road
Richardson, TX 75082-2420
Phone: 972.705.1438
Fax: 972.705.1436
e-mail: ewsigint@rockwellcollins.com
www.rockwellcollins.com/ewsigint