

Helicopter



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Cobham Aerospace Communications

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Aerospace Communications

References



AGUSTAWESTLAND
AVIC
BELL HELICOPTER
EUROCOPTER
HAL
HELIBRAS
KAI
KAWASAKI
KAZAN HELICOPTERS
ROBINSON
SIKORSKY



AERO DYNAMIX
CARSON
CASSIDIAN
CMC
HONEYWELL
RAYTHEON
ROCKWELL COLLINS
SAGEM
THALES



AIRBUS
CASSIDIAN
EMBRAER
FOKKER
LOCKHEED MARTIN
NORTHROP
SAAB



DASSAULT AVIATION
SUKHOI



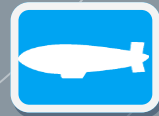
ATR
BOMBARDIER
EMBRAER
SUKHOI



AIRBUS
BOEING
COMAC



BEECHCRAFT
DAHER SOCATA
EMBRAER
NORTHROP
PILATUS
ROCKWELL
TEXTRON



ZEPPELIN



BEECHCRAFT
CESSNA
DASSAULT AVIATION

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Aerospace Communications



About Aerospace Communications

Cobham Aerospace Communications is a part of the Cobham Communications & Connectivity (C3) Business Sector. C3 designs, manufactures, qualifies, certifies and supports a complete range of electronic products for airborne, marine, land and special-purpose applications.

The parent company, Cobham plc, is engaged in the development, delivery and support of advanced aerospace and defense systems for land, sea, and air platforms. With headquarters in Wimborne, UK, it employs over 10,000 people on five continents with annual sales reaching US\$3bn.

Capabilities

Cobham Aerospace Communications has over 60 years of experience in the design, manufacturing, and support of avionics solutions in helicopters for transport, rescue, surveillance, offshore, special operations and governmental duties.

It's capacity for innovation makes it the supplier of some of the world's foremost aerospace communications solutions, including audio & radio management systems for Airbus Helicopter (Eurocopter), AgustaWestland, Sikorsky, Bell, HAL, and KAI, as well as the global retrofit market.

The Digital Audio Control System (DACS) for EC135, AW139, AW169, S-76D and the Audio & Radio Management System (ARMS Compact) for AS565 and EC725 line fits are just two major examples of innovative solutions bringing significant reductions in weight and space, while ensuring a high degree of dependability and ease of operation.

Cobham is proud to serve its clients around the world, including the French Air Force, US Army National Guard, US Coast Guard, US Customs and Border Protection, Federal agencies and foreign military forces in more than 100 countries.

Cobham Aerospace Communications Competencies

Cabin Solutions

Office-In-The-Sky
Wireless Entertainment
VIP Headsets

Slip Rings

De-icing Slip Rings
Instrumentation Slip Rings

Inmarsat SATCOM

Cockpit & Cabin SwiftBroadband Solutions

ARMS

Audio & Radio Management System

Advanced Clock

GPS Clocks

Cockpit Lights

Effective LED Solutions

FliteLine™ & Flexcomm™ Radio Suite

Radio Communications & Navigation
Tactical Communications



Wireless Audio

Operations Around Helicopter

Range of Antennas

Communication
Navigation
Surveillance
Tactical

Microwave

Waveguide
Combiner
Divider
Filter and Duplexer

External Lights

Landing
Navigation
Strobe
Beacon

Installation Examples



MI-17 fitted with N301A Audio Controller and RT-5000 Radios



S-61 Carson fitted with ARMS Compact, DACS and FliteLine™ Radios



AW189 fitted with DACS



KAI KUH fitted with DACS and RT-5000



AH rotorcraft fitted with ARMS Compact, DACS and FliteLine™ Radios



NVIS Dome Light on NH90

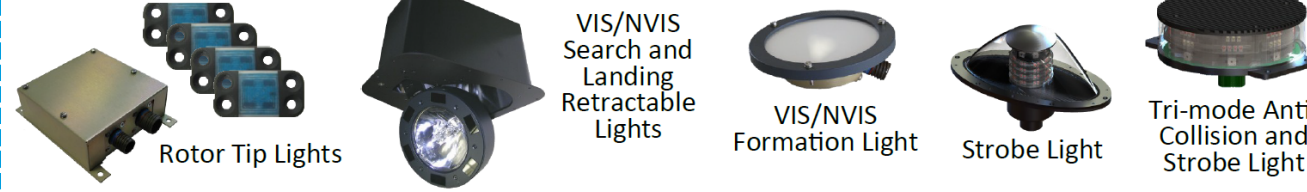
Waveguides and Microwave Components



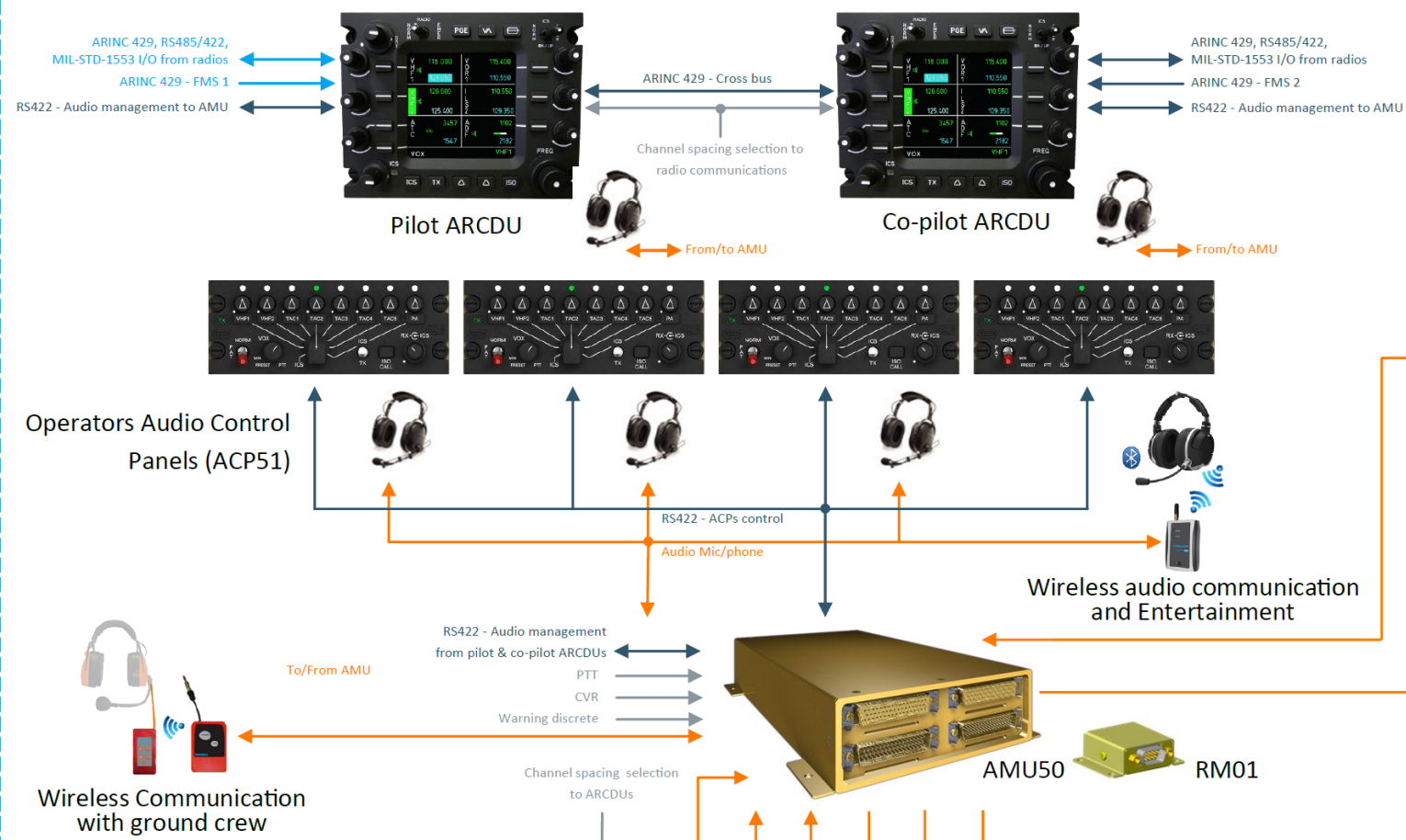
Electrical Slip Rings



External Lights



ARMS Compact



Inmarsat SATCOM - Dialer



Clock



Cabin and Cockpit Lights



ARMS Compact - Optional Passenger Intercom



ARMS Compact - Optional Speaker Amplifier



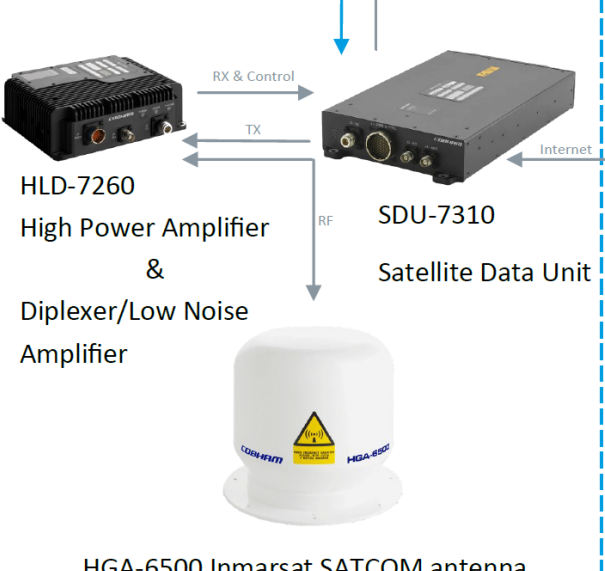
Mission radio



Fliteline radio



Inmarsat SATCOM



Office-in-the-Sky Solution



wiFE Solution



Antennas



Specifications

ARMS Compact

Cobham's ARMS Compact allows control of all airborne audio and radios. It comprises up to 2x ARCDU's, 1x light, compact AMU50 and multiple headset interfaces with the ability to control 16 radios. The AMU integrates alarm generators and is connected to the Remote Memory (RM01) which stores the system's configuration. Flexible, it can be customized by an OEM and/or the avionics integrator for high adaptability to every cockpit. Cobham's ARMS compact is highly valued by OEMs and users.

Radio Suite - FliteLine™

The FliteLine suite consists of a VHF Com (8.33 kHz channel spacing, extended 118-152 MHz frequency band), a VHF Nav combining VOR, ILS localizer, glideslope and market beacon, a multiple channel DME and an ADF. All are fully FAA- and EASA-certified and proven aboard numerous platforms.

Special Mission Transceiver—RT-5000 Flexcomm™

The RT-5000 transceiver delivers total interoperability capability. It is a complete multi-band public service and military communication solution for flights in rigorous and dynamic mission environments. This is the sole system that enables users to talk on all law enforcement, military, EMS, marine, SAR, disaster relief and public service frequencies from 29.7 MHz to 960 MHz with P-25-compliant digital communications. Cross-band relay, simultaneous multi-band transmission and repeater functions are available. Features included in all versions of RT-5000 with P25 technology are AES encryption, OTAR, Multi-key, and SmartZone P-25 Trunking.

JetLAN - Server/Router

The JetLAN Server / Router is a high-performance airborne computer, capable of running Windows®, Linux, VxWorks or QNX operating systems. It can be used for multiple applications:

- Data and video acquisition, analysis, storage and distribution
- Communication resource management
- Network file server & router
- Electronic Flight Bag application hosting
- Safety & maintenance data computer
- Support for in-flight crew networks

Wireless In-flight Entertainment (wIFE) - JetLAN Cabin

Cobham and Bluebox Avionics have brought together their industry-leading skills and capabilities in avionics systems and digital content solutions to provide an innovative, hybrid IFE streaming system. This wireless IFE (wIFE) solution provides a future-proof approach to delivering media content to both operator-provided platforms and passenger-owned, carry-on devices. This unique hybrid solution enables entertaining every passenger without having to install heavy and costly in-seat hardware. Streamed movie, TV and audio media and any operator's specific content are accessible to laptops, tablets and smartphones throughout the cabin via a Wi-Fi network. The Cobham/Bluebox solution delivers an enhanced entertainment experience to passengers, and the benefits of reduced weight, complexity, power consumption and operational costs to operators.

Slip Rings

Cobham is one of the world's foremost producers of slip ring technology for both civil and military applications, with more than 40 years in the field. We can supply standard or customised designs, including low-maintenance versions offering up to several hundred million revolutions without changing components.

For helicopter operations, Cobham is a leading supplier of rotor slip ring technologies, for de-icing, data transfer, and flight instrumentation.

Internal & External Lights

Cobham is proficient in the latest lighting technologies, such as HID, LED and IR, to deliver increased resistance to mechanical vibration, better reliability, and to allow a low touch-temperature. A Development-for-Environment process is used to bring low power consumption and reduced weight/size solutions while maintaining the priority for superior lighting performance and comfort.

Cobham offers a large range of VIS/NIVIS and IR internal and external light solutions

Antennas

Based on 50 years of experience, Cobham designs and produces a wide range of antennas to accommodate multiple sizes of rotorcraft. With low weight and drag, high electrical performance, and qualified for harsh outside environmental conditions, Cobham antennas have been selected by leading helicopter manufacturers.

Advanced Clocks

Cobham 2AT1 electronic clocks meet the highest customer demands while delivering all expected functionalities. They are an integral part of an avionics suite, providing accuracy via GPS synchronization, and security to degraded-mode flights through ARINC 429 outputs. Cobham electronic clocks have a wide viewing angle with day/night automatic dimmable backlight (NVIS-compatible). They offer excellent reading comfort and an intuitive user interface.

PAAS

The Public Address Amplifier System (PAAS) consists of an ARINC 715 Public Address Amplifier (PAA), optional handsets, certified loudspeakers. It is interfaced with the Audio Management Unit (AMU).

The PAA can provide 120W of audio power to a set of cargo loudspeakers and 22W to cockpit/lavatory loudspeakers. It can support x18 loudspeakers (8 ohms) in the cabin and 3 in the cockpit. It includes a chime sound generator.

Microwave components

Cobham has long-term experience in the design and manufacture of Microwave Components and Systems. Our areas of expertise are Silicon Diodes, RF & Microwave Modules, Isolators & Circulators, Filters & Duplexers, Waveguides and systems. Our products are qualified and embedded on various aerial platforms and airborne radars.

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Slip rings



Microwave

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