HF-9500 AIRBORNE HF COMMUNICATION SYSTEM

Future growth available today

Risk Mitigation for ARC-190 replacement

Reliable communication systems are essential for mission success. Upgrade your fleet with Collins Aerospace's HF-9500 airborne HF communication systems – a direct replacement for ARC-190 radios. With its advanced technology and superior performance, it's the only HF system you'll ever need.

EASY INSTALLATION AND INTEGRATION

The HF-9500 offers a low-risk replacement for all ARC-190 models. This solution is built with a common suite of hardware and software components that adhere to Open Systems Architecture (OSA) and HF modernization standards. Now in production and ready for order, Collins Aerospace provides the HF-9500 as a field-level replacement with minimal impact on aircraft availability. It integrates seamlessly into legacy systems using existing ancillaries and aircraft control systems, requiring minimal wiring connector modifications for installation.

KEY FEATURES AND BENEFITS

- Certified airworthy and in-production.
- Low-impact replacement.
- Exceeds ARC-190 system capabilities.
- Can be used with all antenna types and configurations.
- Existing cabling with cable adaptors can be reused in-place.
- Existing ARC-190 coupler should be replaced or used with SW/HW update.
- Provides full simultaneous operations (SIMOP) filtering capability.
- Backwards compatible with legacy software and hardware.
- Hardware upgrade supported to meet modernized features.
- Sustainable for the service life of your platform.

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HF-9500 SYSTEM CAPABILITIES

- Single sideband (SSB)
- Independent sideband data (ISB)
- Amplitude Modulation Equivalent (AME)
- Continuous wave (CW)
- 2G Automatic Link Establishment (ALE)
- ARINC 714 selective calling (SELCAL)
- Low-rate data modes: 75 bps to 19.2 kbps
- ARINC 635 High Frequency Data Link (HFDL)*
- Embedded SIMOP filtering
- NTIA certified 400-watt PEP power amplifier
- MIL 1553 control (available with ARC-190 control message set)
- ARC-190 system interfaces (e.g., OFP, coupler, ACP)
- Automatic position reporting
- Software-defined radio (SDR) architecture
- Compatibility with VACM and legacy crypto devices

COLLINS AEROSPACE HF-9500 AIRBORNE HF COMMUNICATION SYSTEM

HF-9550 receiver-transmitter and HF-9545 antenna coupler

HF-9515 radio set control

HF-9500 SYSTEM PART NUMBERS

HF-9550	High Frequency Receiver-Transmitter	822-0980-005	NSN 5821-01-550-4036
HF-9545	Pressurized Antenna Coupler	822-0981-101	NSN 5985-01-569-1603
HF-9515	Set Control Unit (5V AC/DC)	822-1080-011	NSN 5821-01-506-6037
HF-9515	Set Control Unit (28V DC)	822-1080-013	NSN 5821-01-558-8227
MT-9551B	Receiver-Transmitter Mount	822-1082-001	NSN 5975-01-473-7204
MT-9545B	Antenna Coupler Mount	822-1171-001	NSN 5975-01-473-7202

*Currently requires CP-2024

Specifications subject to change without notice.

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