Reliable, flexible communications for today’s battlespace.

V/UHF communications

IN BATTLE MANAGEMENT

Rockwell Collins
Building trust every day
Powerful performance on command.

Intuitive, adaptable, reliable and clear. These are your requirements for a communications system, whether you’re operating at a fixed site or a moving environment such as a ground vehicle or ship.

Rockwell Collins has your communications covered with two capability-rich systems that can meet all your requirements and more. Both offer superior receiver quality, voice over IP, Ethernet control, common software/software defined radio architecture, modular design and high mean time between failures.

For the clearest communications in transmit and receive modes, both systems also include our Clarity™ noise reduction software. It increases talk power, link margin and range by reducing non-syllabic background noise. That means heating/cooling system noise, street and office sounds, and signal interference from co-location pollution are all filtered out of your communications channel.
Fixed site

You can choose from two options when you need communications based on fixed-site operations.

Our 721S fixed-site V/UHF radio transceiver delivers superior connectivity in a tailorable solution for stand-alone or networked transceivers. It is a direct, drop-in replacement for your legacy GRC-171 and GRC-211 systems. Options include Electronic Protection Measures with Talon, Talon II, HAVE QUICK I/II and SATURN waveforms.

Our 721S Blade ground V/UHF radio offers modular flexibility in a small form factor that can scale to your site and capability requirements.

(For a side-by-side comparison of 721S and 721S Blade features, see the table on page 6.)

Transportable

For primary, emergency and backup AM/FM V/UHF air traffic control requirements with flyaway operation, 721S Blade is your choice. It offers the smallest footprint for size, weight and power usage in the dual-band V/UHF market. Features include:

- Voice only
- Data/networking
- Protected communications
- No compromise in RF performance for the transportable/expeditionary market space
- 10-minute setup time in deployable configurations
- Modular design enables flexible scalability and easy upgradability
- Embedded scanning guard receiver mode

Baseline system

- 721S fixed-site VHF-UHF radio transceiver
- 721S Blade VHF-UHF transceiver

Available options

- External filters
- Combiners
- Multi-couplers
- Voice control switch
- Coaxial cables
- Connections
- Lightning arrestors
- Antennas

Configuration options
Maybe you need particular waveform compatibility, or communications equipment light and small enough to handle expeditionary usage. Maybe your needs are for a transmit output power carrier range from 10 W to 50 W. No matter what you’re looking for in a fixed-site or transportable communications system, talk with us. Our transceivers and systems are designed with the flexibility to deliver reliable ground-air communications across a broad range of usage types.
The right decision.

Choosing the best radio system for your operations begins with a few simple questions. For example, do you need a fixed-site or transportable system? From that first point of differentiation will come other factors that ultimately will help determine the system that’s right for you.

Use the decision tree below to help you narrow your choices. Or, you can always contact your Rockwell Collins representative to discuss the unique elements of your mission and which radio system aligns best with them.
Features, side by side.

The 721S and 721S Blade offer a rich list of features – some that are common to both systems and some that are distinctive to each. With the table below, it’s easy to see which radio system provides the features you want.

For a more in-depth look at the features for any of our V/UHF radio systems, contact your Rockwell Collins representative or visit us at rockwellcollins.com.

<table>
<thead>
<tr>
<th>Feature</th>
<th>721S</th>
<th>721S Blade</th>
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<tbody>
<tr>
<td>30-88 MHz</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>30-512 MHz</td>
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<tr>
<td>108-400 MHz</td>
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<tr>
<td>Drop-in replacement to GRC-171/211</td>
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<td>Link 11/22</td>
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<td>External encryption</td>
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<td>X</td>
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<td>10 W/50 W output in AM</td>
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<tr>
<td>SWAP-C considerations</td>
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<tr>
<td>30 W/50 W output in AM</td>
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Every day, in battlespaces around the world, Rockwell Collins communications equipment performs with precision and reliability in highly demanding conditions. Our company was founded on the delivery of innovative radio communications technologies, and it’s a legacy we’re proud to build upon. Today, Rockwell Collins is the trusted source for V/UHF battle-management solutions that provide capability and flexibility for continually evolving missions.
Building trust every day.

Rockwell Collins delivers innovative aviation and high-integrity solutions that transform commercial and government customers’ futures worldwide. Backed by a global network of service and support, we are deeply committed to putting our solutions to work for you, whenever and wherever you need us. In this way, working together, we build trust. Every day.

For more information, contact:

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