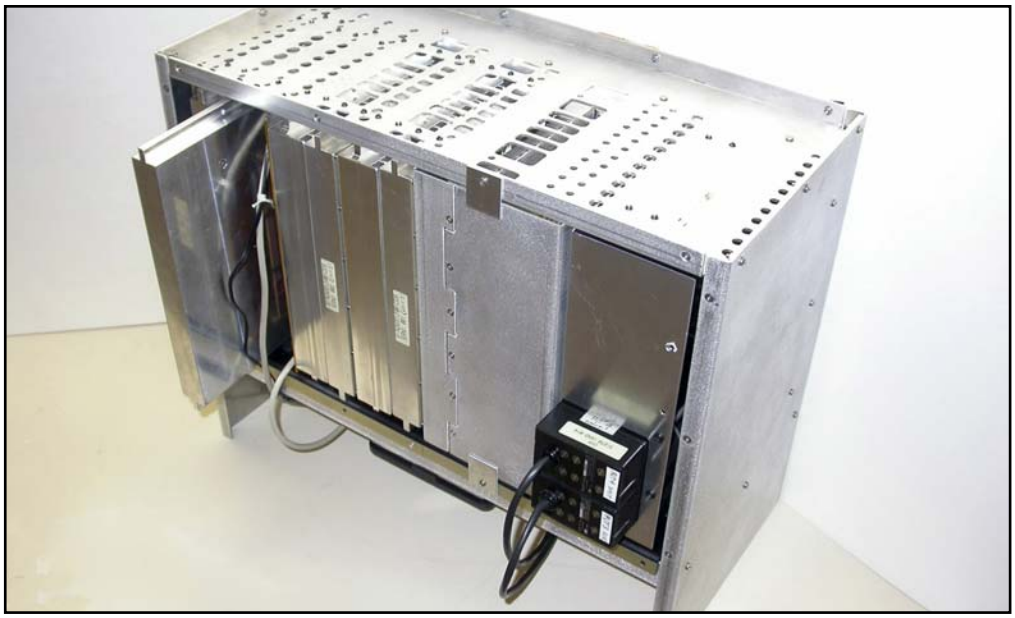
UAV Communications Relay



Features

- Reduces the number of antennae required
- Modular architecture allowing for expansion of channels (up to 16)
- Replaces legacy radios now being used on tactical size UAVs
- Channels can be used independently or configured
- Prevents radio-to-radio interference
- Separate L-Band to handle high speed data relay
- Four communication software programmable channels, each capable of handling waveforms found in the VHF and UHF band
- Cross banding for relay purposes

Overview

The UAV Communications Relay is intended to replace the legacy radios currently being used on Tactical size UAVs such as Predator, ERMP, Fire Scout, and Hunter. The package provides 4 communication software programmable channels, each of which can handle typical waveforms found in the VHF and UHF band. The channels can be independently used as radio channels, or can be configured to provide ground to ground, air to air, or ground to air relay. Cross banding is also possible with one channel possibly being VHF and the other channel possibly being UHF.

The Communication Relay also contains a separate L-Band relay. This L-Band is intended to handle high speed data relay such as real time video.

Xetron's UAV Communication Relay utilizes proprietary antenna combining and adaptive interference cancellation. These technologies reduce the number of antennae required, and prevent radio-to-radio interference. The architecture is modular, allowing expansion of the number of channels. In similar equipment built for another as part of an ACTD, 16 channels were provided.

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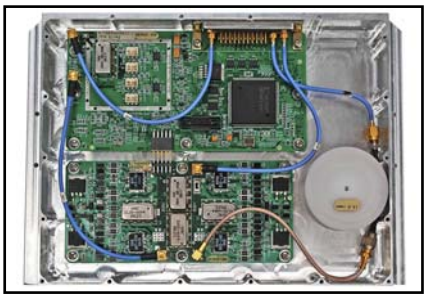
UAV Communications Relay



UAV Communications Relay Specifications

Frequency Range:	VHF AND UHF
Data Relay:	L-Band
Total Channels	4 (Comms), 1 (Data Relay) - Expandable to 16 Total
Waveforms:	Typical UHF and VHF Single Channel and ECCM
Size:	<1200 Cubic Inches
Weight	<37 lbs.
Power:	+ 28V
Antennae:	1 VHF/UHF for Receive 1 VHF/UHF for Transmit 1 L-Band for Data Relay
Integrated Cosite Mitigation	
Software Programmable Modulation/Demodulation	

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Specifications and features subject to change without notice.

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