



KU UP/DOWN CONVERTER

ENHANCED SPECTRUM AGILITY

Shaping today's battlespace

Collins Aerospace's KU Up/Down Converter is the perfect complement to expand the capabilities of the Secure CDL ISR (SCISR) radio. Expanding the frequency range of the current radio with the latest hardware module brings communication networks into the future for both ground and airborne applications.

The KU Up/Down Converter covers both the KU1 and KU2 Band and translates that to the SCISR radio bands of operation.

Able to operate in a full duplex mode, the KU Up/Down Converter is designed with a high-power +33 dBm minimum transmitter and a sensitive 4 dB noise figure receiver. Included is the advanced diplexer circuit that enables a single antenna to be shared between both transmit and receive paths.

Frequency agility allows the operator to chose the best domain for the situation, increasing the integrity of data communications. Its modular approach provides interoperability with virtually any antenna or power amplifier, giving the warfighter the flexibility needed for any mission that requires wideband data throughput.

The KU Up/Down Converter extends the competitive advantage that the SCISR radio gives you in today's battlespaces.



KEY FEATURES & BENEFITS

- Low-size, weight, power and cost (SWaP-C)
- Non-proprietary interfaces
- Easy attachments to the SCISR radios
- Supports bi-directional communications
- Extend SCISR into KU-Band
- Supports both KU1 and KU2 frequency bands

SPECIFICATIONS

Main radio characteristics

Length	3.00"
Width	2.25"
Height	0.8"
Weight	<0.5 pounds
Input power	10-32 VDC

Performance characteristics

Input frequencies

- S-Band: 2025-2500 MHz
- C-Band: 4400-4990 MHz

Operational frequency

- KU1 Band: 14.4-15.35 GHz
 - KU1 Band (low): 14.4-14.83 GHz
 - KU1 Band (high): 15.15-15.35 GHz
- KU2 Band: 15.5-16.9 GHz
 - KU2 Band (low): 15.5-16.0 GHz
 - KU2 Band (high): 16.45-16.9 GHz

Typical output power

>2 W (all bands)

Power consumption

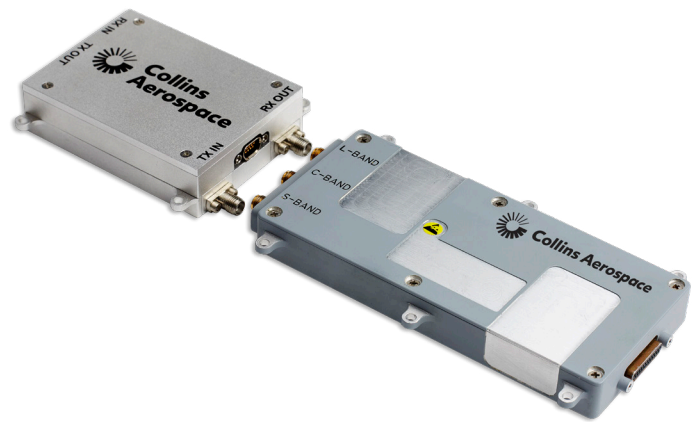
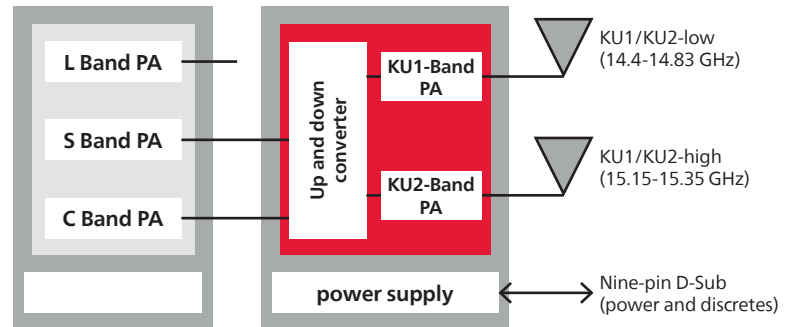
<35 W

Platforms

Applications include: Blackjack, Scan Eagle, Huey, Osprey and other tactical and/or small unmanned aerial vehicles (UAVs) and aircraft. Ideal for small UAVs.

RT-2071 SCISR RADIO

KU UP/DOWN CONVERTER



Specifications subject to change without notice.



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