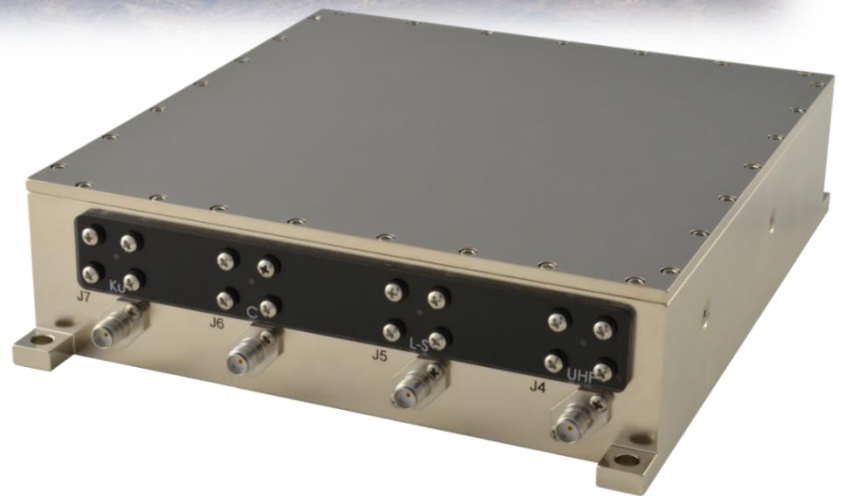




The PAUK-20B is a ruggedized and compact solution for providing up to 20W linear power in any of four bands of operation.



Its optimized design provides minimum size, weight and power consumption enabling deployment in virtually all platforms. The PAUK covers UHF, L, S, high and low C, and Ku bands in a single, compact package virtually eliminating any requirement for in-theater system reconfiguration.

KEY FEATURES:

- Linear Amplification in UHF, L/S, C and Ku-Bands
- Low Cost, Size, Weight and Power (SWaP)
- Ruggedized and Compact
- RS-485 Monitoring and Control
- Vortex® and Rover® Compatible
- High Linearity Compatible with Virtually All Modulation Forms
- IRNV-Friendly LED Indicators
- Qualified on Multiple Programs
- Deployed on Numerous Platforms

PAUK-20B Power Amplifier

The PAUK-20B provides linear amplification in the UHF, L, S, C and Ku frequency bands. The RS-485 digital control interface allows for dynamic configuration while in operation, allowing band selection and output power control. This provides for increased versatility by supporting maximum transmit power for FSK and FM modulated carriers as well as linear operation for QPSK and OQPSK signals without detrimental spectral regrowth.



PAUK-20B QUAD BAND AMPLIFIER PERFORMANCE SPECIFICATIONS

Specification	Frequency Band			
	UHF	L/S	C	Ku
Frequency Range	400-470 MHz	1710-1850 MHz & 2200-2500 MHz	4400-5000 MHz & 5250-5850 MHz	14.5-15.35 GHz
RF Output Power (P_{1dB})	20 W minimum	20 W minimum	15 W minimum	8 W minimum
RF Input Power	-5 to +10 dBm			
Maximum RF Input	+15 dBm			
VSWR (Input and Output)	2.0:1 maximum			
Spurious and Harmonic EMI	IAW MIL-STD-461E			
RF Output Protection	Will operate into any load at any phase angle			
DC Input Power	+24 to +32 VDC @ 7.5A Max (Reverse polarity protected)			
Size and Weight	6 x 6.2 x 1.75", 5 pounds maximum			
RF Connectors	5x SMA Female (1x for Composite input and 1x for each output band)			
Operating Temperature	-20 to +70°C baseplate			
Power and Control	DT02H-8-4PN (DC Power), DJT02H-12-35PN (RS-485 and Discrete)			
Environmental	IAW MIL-STD-810F			



PAUK-20B
Quad Band Power Amplifier



Ramona Research also supplies a variety of Dual and Single Band Power Amplifiers