

Satellite Communication Products

50 Years of
Excellence

Quad Band Converters

**C, X, Ku, K/Ka Quad Band Up and Down Converter
in Single 1 U Rack**



- **Bands**
 - Up Converter: 5850 - 31000 MHz
 - Down Converter: 3400 - 21200 MHz
- **L Band Input/Output**
 - 950 MHz to 2000 MHz
- **Block Conversion Architecture**
 - No Frequency Inversion
- **1 U Rack Mount**
 - 1.75" High, 22" Wide
 - Simple Front Panel Local Controls
 - 14 lbs Maximum Weight (32 lbs Dual)
- **RS-485 Bus for Remote Operation**
- **External or Internal 5 MHz Reference**

Up Converter Specification Summary

Frequency of Operation	Input (MHz)	Output (MHz)
C Band	950-1750	5850-6650
X Band	950-1450	7900-8400
Ku Band	950-1700	13750-14500
Ka Band	1000-2000	30000-31000
Gain	35 dB $\pm$ 2 dB	
Gain Control	30 dB, 1 dB steps	
Output Level	15 dBm @ 1 dB compression	
Input Level	< -15 dBm @ 1 dB compressions and 10 dB attenuation	
Phase Linearity	< 4° p-p per 36 MHz	
Noise Figure	< 15 dB @ 0 dB attenuation	
Phase Noise	-94 dBc/Hz @ 10 kHz	

Down Converter Specification Summary

Frequency of Operation	Input (MHz)	Output (MHz)
C Band	3400 - 4200	950-1750
X Band	7250 - 7750	950-1450
Ku Band	10950-11450	950-1450
	11450-11700	950-1450
	11700-12200	950-1450
	12200-12750	950-1450
Ka Band	20200-21200	1000-2000
Gain	52 dB $\pm$ 3 dB	
Gain Control	40 dB, 1 dB steps	
Output Level	> 18 dBm @ 1 dB compression	
Phase Linearity	< 4° p-p per 36 MHz	
Noise Figure	< 15 dBm @ 0 dB attenuation	
Phase Noise	-94 dBc/Hz @ 10 kHz	

