

Product Specification Summary

Model BD/Q-1

SATCOM Quad-band Block Up/Downconverters

Model BD/Q-1 quad-band block downconverter and Model BU/Q-1 quad-band block upconverter are designed for satellite communication Earth terminals. The BD/Q-1 downconverts single or multiple signals at C, X, Ku or Ka-Band to an L-band IF frequency. The BU/Q-1 upconverts single or multiple L-band IF signal inputs to a user-selected output frequency band of C, X, Ku or Ka-band. Both have an internal 5-MHz reference and accept an external 5 MHz reference.

The front panels display frequency band, attenuation, baud rate, and error codes, and a keypad sets attenuation, band, local/remote operation, and enable/disable mute function. Status indicators are provided for remote operation, faults and mute. M&C functions are available locally and remotely via RS-485 bus. Both converters can be mounted side-by-side in a 1 U 19-in. rack.

Key features/applications

- Designed for use in satellite communications Earth terminals
- Rugged designs ensures high reliability in over-the-road, military aircraft, shipboard, or rail transport
- Low phase noise and no spectrum inversion
- Both converters can be mounted side by side in a standard 1U 19-in. rack.
- Each unit measures 8.5 x 1.75 x 0.22 in., and weighs 14 lb.
- Full front-panel controls and settings
- Local and remote M&C functions
- Custom versions available
- Operating conditions include 0 to +56° C, and altitude of 10,000 ft.



Parameter	BD/Q-1 downconverter	BU/Q-1 upconverter
RF input frequencies (MHz)	C-band: 3400 to 4200 X-band: 7250 to 7750 Ku-band: 10950 to 11450, 11450 to 11700, 11700 to 12200, 12200 to 12700 Ka-band: 20200 to 21200	C-band: 950 to 1750 X-band: 950 to 1450 Ku-band: 950 to 1700 Ka-band: 1000 to 2000
Maximum input power (dBm)	20 dBm without damage	20 dBm without damage
RF output frequencies (MHz)	NA	C-b and: 5850 to 6650 X-band: 7900 to 8400 Ku-band: 13750 to 14500 KA-band: 30000 to 31000
IF output sample coupling (dB)	-20 +/-2 dB	
Mute (dBm)	NA	-80 at maximum output
Dimensions (in.)	8.5 x 1.75 x 0.22	
Weight (lb.)	14 lb.	

Please consult the factory for detailed product specifications.

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