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Model 4831

C / Ku-band Downconverter Conversion Station



The Satellite Systems Model 4831 is an affordable switchable Block Downconverter for both C-band and full global Ku-bands. The unit contains integral RF routing. Simply enter the desired Frequency via the front panel keypad or Remote Control, and the appropriate BDC is selected and routed to the L-band output jack on the rear panel.

An option is available to automatically control a Satellite Systems slave-mode Beacon Tracking Receiver. In this mode, the BTR serial control cable is connected to the Conversion Station, thus allowing the customer to simply enter the desired C-band or Ku-band frequency, and the Beacon Tracking Receiver will automatically tune the correct L-band frequency. The only front panel control needed on the Slave BTR is the Reference level adjustment, which can also be adjusted remotely.

All controls are made via front panel keypad and display or Remote Control via the user selected RS-232, RS-485/422, or Ethernet. When used with the SSC BTR with Slave mode, all M&C communications for both the Conversion Station and the BTR are routed thru the Conversion Station. Thus only one M&C connection is required.

INPUT FREQUENCY BANDS	3.4 to 4.2 GHz, 10.7 to 11.7 GHz, and 11.7 to 12.75 GHz
OUTPUT FREQUENCY	950 to 2000 MHz
FREQUENCY CONVERSION	Internal
INTERNAL LOCAL OSCILLATORS	5.15, 9.75, and 10.75 GHz
LO STABILITY	±10 kHz over +10 to +50 deg C ±25 kHz over -40 to +55 deg C
LO PHASE NOISE	-75dBc/Hz@1 kHz max
INPUT IMPEDANCE	50 Ohm / DC Blocked
OUTPUT IMPEDANCE	50 Ohm / DC Blocked
RF CONNECTORS	Type N Female, 1, 2, or 3 inputs, 1 output
PRIME POWER	90 - 260 VAC @ 47 - 63 Hz
OPERATING TEMPERATURE	-10 to +50 deg. C
HUMIDITY	up to 95%, non-condensing
MOUNTING	Standard 19" Rack Mount
SIZE	1 RU, 18.75" deep
WEIGHT	15 pounds
REMOTE CONTROL RS-232, RS-485/422, Ethernet	front panel selectable

Options:

Other combinations of IF-, L-, C-, I-, X-, Ku- and Ka-bands are available. Please contact factory for details.
 Various Input connector options are available. Please contact factory for details.
 Various LNA Power options are available. Please contact factory for details.