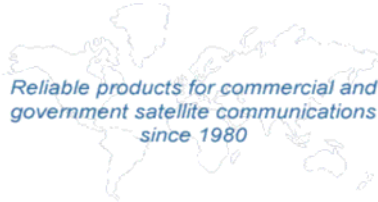




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Model 4841

L / C / Ku-band Downconverter Conversion Station



The Satellite Systems Model 4841 is an affordable switchable Block Downconverter for both C-band and full global Ku-bands, as well as a pass-thru path for L-band. 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 L-, C-, 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 | 930 to 2300 MHz, 3.4 to 4.2 GHz, 10.7 to 11.7 GHz, and 11.7 to 12.75 GHz |
| OUTPUT FREQUENCY | 930 to 2300 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, 3, or 4 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.