



Transponder Capacity
Global Communication Networks
High-speed Broadband
Satellite - Wireless - Fiber

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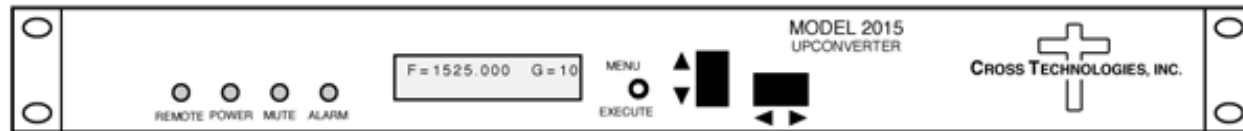


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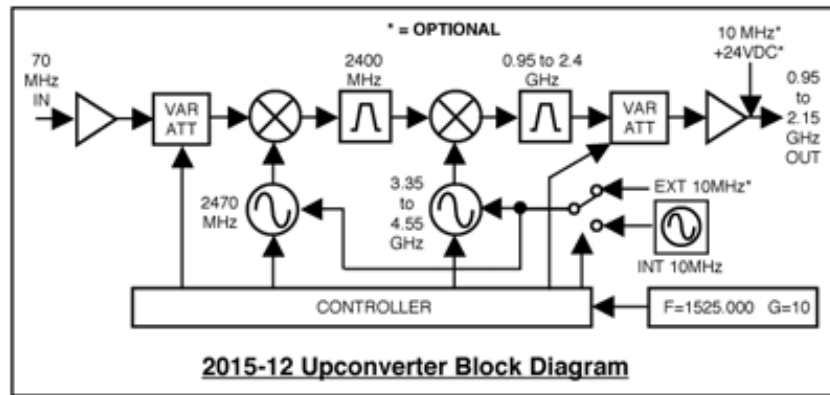
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2015-12 Agile L-Band Upconverter

The 2015-12 L-band Upconverter converts 70 ± 18 MHz to 950 to 2150 MHz in 1kHz, 10kHz, or 125kHz steps (user selectable) with low group delay and flat frequency response. Synthesized local oscillators (LO) provide very low phase noise and ± 0.01 ppm stability frequency selection. Multi-function push button switches select the RF frequency, gain, and other parameters. Front panel LEDs provide indication of DC power (green), PLL alarm (red), remote operation (yellow) or the TX carrier is muted (red). Variable attenuators for the IF input and output provide a gain range of -10 to +30 dB as adjusted by the front panel multi-function push-button switches. Remote operation allows selection of frequency and gain. Parameter selection and frequency and gain settings appear on the LCD display. Connectors are BNC female for IF and the optional external reference input and output, and Type F female for the RF output. SSPB +24 VDC, 2.5 Amps and 10 MHz reference can be inserted on the RF line as added options. The 10 MHz option also includes a 10 MHz output connector, which contains either the internal or external 10 MHz reference signal. The unit is powered by a 90-260 VAC power supply, and housed in a 1 3/4" X 19" X 16" rack mount chassis.



2015-12 Agile L-Band Upconverter Front Panel



Equipment Specifications*

Input Characteristics

Impedance/RL	75 ohms/18dB
Frequency	70 ± 18 MHz
Level, max	-40 to -10 dBm

Output Characteristics

Impedance/RL	75 ohms/10dB
Frequency (see models)	950 to 2150 MHz
Level	0 to -20 dBm
Output 1dB	+5 dBm
Channel Characteristics	
Gain range (adjustable)	-10 dB to +30 dB
Spurious Response	< -50 dBC
Frequency Response	±1.5dB, 950-2150 MHz; ±0.5dB, 36 MHz BW
Group Delay, max	3 ns, 30 MHz; 5 ns, 36 MHz BW
Frequency Sense	Non-inverting
Synthesizer Characteristics	
Frequency Accuracy	±0.01 ppm internal ref; external ref input
Frequency Step	1 kHz, 10 kHz, or 125 kHz (user selectable)
Phase Noise (dBC/Hz)	< -75 @ 100Hz; < -90 @ 1.0kHz; < -97 @ 10kHz; < -110 @ 107kHz; < -120 @ 1MHz
10 MHz Level (In or Out)	0 dBm, ±3 dB, 75 ohms (option -E)
Controls/Indicators	
Frequency Selection	Direct readout LCD; push button switches or remote selection
Gain Selection	Direct readout LCD; push button switches or remote selection
Alarm	Red LED
DC Power	Green LED
Remote	Yellow LED; RS232C, 9600 baud (RS485 option -Q)
Mute	Red LED
Other	
RF Connector	Type F (female)
IF Connector	BNC (female)
10 MHz Connectors	BNC (female) (option -E)
Connector, Alarm, Remote	DB9 - NO or NC contact closure on Alarm
Size	19 inch 1RU standard chassis, 1.75"H X 16.0"D
Power	90-260 VAC, 47-63 Hz, 45W max
Options	
-E	External 10MHz input and output w/ RF insertion
-V	SSPB +24 VDC, 2.5 Amps
-Q	RS485 Remote Interface
-T	Temperature Sensor
-Z	Attenuator 0.1 dB steps

*+10 to +40 degrees C; Specifications subject to change without notice