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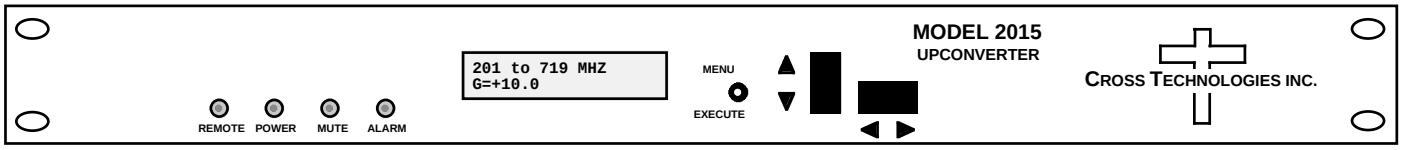
Find the *Cross Technologies 2015-75-213* at our website: *Click HERE*

CROSS TECHNOLOGIES, INC.

DATA SHEET
REV. A
2/12/08

2015-75-213 Upconverter, 201 or 213 MHz to 719 MHz

The 2015-75-213 Upconverter converts 201.143 or 213.143 ± 3 MHz to 719 MHz **± 3** MHz with low group delay and flat frequency response. Synthesized local oscillators (LO) provide input frequency selection. Multi-function push button switches select the input 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 (yellow). Variable attenuators for the IF input and RF output provide a gain range of -10 to +20 dB as adjusted by the front panel multi-function push-button switches. Remote operation allows selection of input frequency and gain. Parameter selection and frequency translation and gain settings appear on the LCD display. Connectors are Type F female for the RF and BNC female for IF and optional 10 MHz input and output signals (option -E). A high stability (±0.01ppm) (option -H) is also available. The unit is powered by a 100-240 ± 10% VAC power supply, and housed in a 1 3/4" X 19 " X 16" rack mount chassis.



Front Panel

EQUIPMENT SPECIFICATIONS*

Input Characteristics (IF)

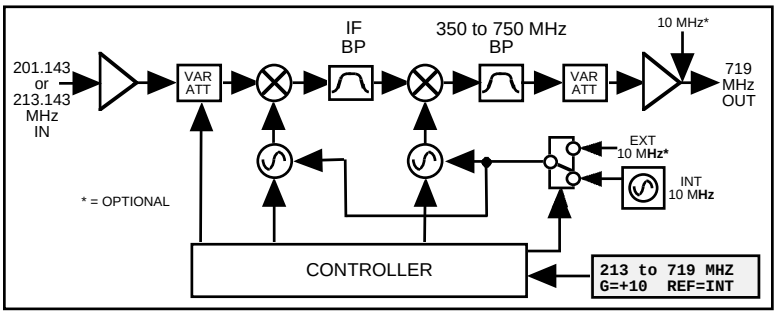
Impedance / Return Loss	75Ω / 12dB
Frequency	201.143 or 213.143 ± 3 MHz
Input Level Range	-30 to -10 dBm

Output Characteristics (RF)

Impedance / Return Loss	75Ω / 12dB
Frequency	719 MHz ± 3 MHz
Output level	-20 to 0 dBm
Output 1 dB compression	+5 dBm

Channel Characteristics

Gain range (adjustable)	-10 to +20 dB
Frequency Response	719 MHz ± 3 MHz; ± 0.5 dB
Spurious Response	< -45 dBc, in band
2nd Harmonic	< -40 dBc
Group Delay, max	0.01 ns/MHz^2 parabolic; 0.03 ns/MHz linear; 1 ns ripple
Frequency Sense	Non-inverting



Block Diagram

Synthesizer Characteristics

Frequency Accuracy	± 1.0 ppm internal reference (±0.01 ppm, option H)
Frequency Step	None, 201.143 or 213.143 MHz in, selectable
10 MHz In/Out Level	3 dBm ± 3 dB (option E)

Phase Noise	@ Freq	100Hz	1kHz	10kHz	100kHz	1MHz
	dBC/Hz	< -70	< -70	< -80	< -95	< -110

Controls, Indicators

Freq/Gain Selection	direct readout LCD; manual or remote selection
Pwr; Alarm; Rem; Mute	Green LED; Red LED; Yellow LED; Yellow LED
Remote	RS232C, 9600 baud (RS485, option Q)

Other

RF, IF Connectors	Type F, BNC (female)
10MHz Connectors	BNC (female), 50Ω/75Ω (option E)
Alarm/Remote Connector	DB9 (female) - NO or NC contact closure on Alarm
Size	19 inch, 1RU standard chassis 1.75"high X 16.0" deep
Power	100-240 ± 10% VAC, 47-63 Hz, 45 W max

Available Options

E - External 10 MHz ref input & output
H - High Stability Internal Ref (±0.01 ppm)
Q - RS485 Remote Interface
X - 125 kHz Frequency Steps
Z - Attenuator 0.1 dB on Upconverter

Connectors/Impedance
B - 75Ω BNC (RF), 75Ω BNC (IF)
C - 50Ω BNC (RF), 75Ω BNC (IF)
D - 50Ω BNC (RF), 50Ω BNC (IF)
N - 50Ω N-type (RF), 75Ω BNC (IF)
M - 50Ω N-type (RF), 50Ω BNC (IF)
S - 50Ω SMA (RF), 50Ω BNC (IF)

*10˚C to 40˚C; Specifications subject to change without notice

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