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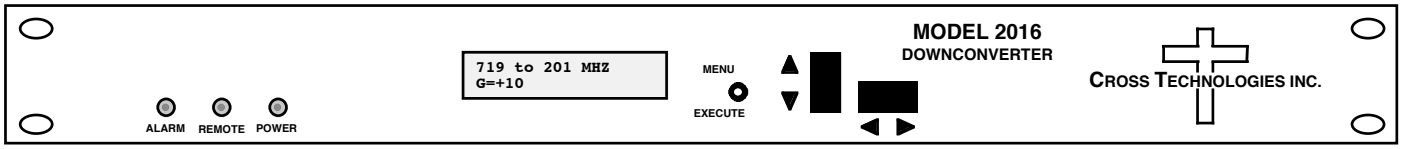
Find the *Cross Technologies 2016-75-213* at our website: *Click HERE*

CROSS TECHNOLOGIES, INC.

DATA SHEET
REV. A
2/12/08

2016-75-213 Downconverter, 719 MHz to 201 or 213 MHz

The 2016-75-213 Downconverter converts **719** MHz to **201 or 213 ± 3 MHz** with low group delay and flat frequency response. Synthesized local oscillators (LO) provide output frequency selection. Multi-function push button switches select the output frequency, gain, and other parameters. Front panel LEDs provide indication of DC power (green), remote operation (yellow), and PLL alarm (red). Variable attenuators for the RF input provide a gain range of 0 to **+40** dB as adjusted by the front panel multi-function pushbutton switches. Remote operation allows selection of output 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

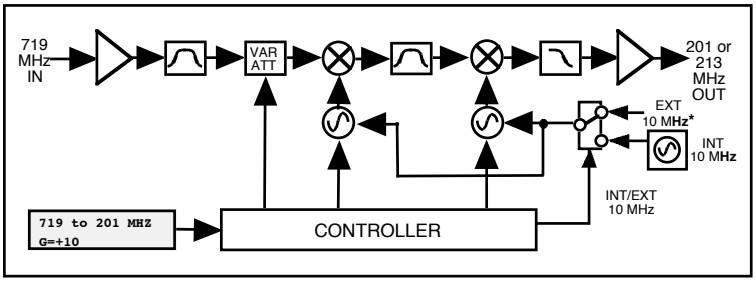
EQUIPMENT SPECIFICATIONS*

Input Characteristics (RF)

Impedance/Return Loss	75Ω / 12dB
Frequency	**719** MHz **± 3 MHz**
Noise Figure, max.	15 dB (max gain)
Level Range	**-60** to -20 dBm
Input 1dB compression	-15 dBm

Output Characteristics (IF)

Impedance/Return Loss	75Ω / 12dB
Frequency	**201 or 213 ± 3 MHz**
Level Range	-30 to -20 dBm
Output 1 dB compression	-15 dBm



Block Diagram

Channel Characteristics

Gain range (adjustable)	0.0 to **+40.0 dB**
Image Rejection	> 50 dB, min.
Frequency Response	**201 or 213 ± 3 MHz out** ; ±0.5 dB
Spurious Response	< -45 dBC, in band
Group Delay, max	0.01 ns/MHz^2 parabolic; 0.03 ns/MHz linear; 1 ns ripple
Frequency Sense	**Non-inverting**

Synthesizer Characteristics

Frequency Accuracy	±1.0 ppm internal reference (±0.01 ppm, **option H**)
Frequency Step	None, 201 or 213 MHz out, 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; Red 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
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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