

AM-9220 Series 70 to L-Band Up/Down Converter

Key Features

- Gain adjustment 25dB in 0.5dB step
- Multiplex 10 MHz reference & DC supplies to BUC and LNB
- Simple installation
- Trouble-free maintenance
- Low phase noise
- High reliability
- LED/LCD Display with Backlight
- Front Panel control
- Remote Control via RS232
- Cost effective

Application

- Enables existing 70MHz interface modem to work with L-Band BUC

AM-9220 series 70 to L- Band Up/Down Converter translates the 70MHz IF signal to a user selected frequency at L-Band (950 to 1750MHz) and vice versa with independent adjustable gain.



The converter multiplexes 10 MHz reference and DC supplies onto the L band signal to enable single cable connection to the BUC/LNB.

The channel setting, gain adjustment for Transmit and Receive and BUC/LNB power supply are controlled via Front Panel push-buttons for swift access. LCD and LEDs provide visual indication of the unit's status. Remotely it can be controlled via RS232 serial interface located on a M&C Rear panel connector.

The converter is housed in a compact 1U high chassis for mounting on standard 19-inch equipment rack.

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TRANSMIT/UP CONVERSION		RECEIVE/DOWN CONVERSION	
IF Input Frequency	70 MHz \pm 18 MHz	RF Input Frequency	950 to 1750 MHz
RF Output Frequency	950 to 1750 MHz	IF output frequency	70 MHz \pm 18 MHz
Gain Adjustment	25 dB @ 0.5 dB steps	Gain Adjustment	25 dB @ 0.5 dB steps
IF Input Power Range	-35 to -10 dBm	RF Input Power Range	-60 to -30 dBm
Frequency Step Size	1 MHz	Frequency Step Size	1 MHz
Gain	10 ~ 35 dB	Gain	30 dB
Gain Flatness	\pm 1.5 dB (over RF BW)	Gain Flatness	\pm 1.5 dB (over RF BW)
	\pm 1 dB (over IF BW)		\pm 1 dB (over IF BW)
Output power (P _{-1dB})	0 dBm	Output power (P _{-1dB})	0 dBm
Phase Noise		Phase Noise	
@100 Hz	70 dBc/Hz typical	@100 Hz	70 dBc/Hz typical
@1 kHz	75 dBc/Hz typical	@1 kHz	75 dBc/Hz typical
@10 kHz	85 dBc/Hz typical	@10 kHz	85 dBc/Hz typical
@100 kHz	95 dBc/Hz typical	@100 kHz	95 dBc/Hz typical
@1 MHz	110 dBc/Hz typical	@1 MHz	110 dBc/Hz typical
Spurious	>50 dBc	Spurious	>50 dBc
Input Impedance	50 Ω (75 Ω optional)	Input Impedance	50 Ω
Output Impedance	50 Ω	Output Impedance	50 Ω (75 Ω optional)
IF Input Return Loss	>20 dB	RF Input Return Loss	>15 dB
RF Output Return Loss	>15 dB	IF Output Return Loss	>20 dB
IF Input Connector	BNC (F)	RF Input Connector	N-type (F)
RF Output Connector	N-type (F)	IF Output Connector	BNC (F)

General	
Input Supply Voltage	200 to 240 Vac, 50/60 Hz / 110Vac optional
Temperature (Operating)	0°C to 50°C
DC Voltage to BUC	24V, 5A (Max)
DC Voltage to LNB	18V, 0.5A (Max)
Dimensions	19" Rack 1U height
Weight	6.2 Kg
Monitoring & Controlling Functions	
Control Functions	Channel and Gain setting
	BUC ON/ OFF
	LNB ON/OFF
Monitor Functions	Channel and Gain setting
	LO Status
	BUC Supply ; LNB Supply
	Status Update

Specifications are subject to change without notice

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