

# MX<sup>D</sup> SERIES

The evolution of 40+ years of experience

SIMPLICITY • RELIABILITY • MODULARITY • SERVICEABILITY

## **MXD 1V**

### **1 Watt Digital VHF Transmitter / Translator**



**\*FCC Certified**

**Frequency Agile**

**Adjacent Channel  
Operation Capable**

**8VSB ATSC Modulator  
(with Upconverter) or  
Transcoder / REGEN**

**Linear, Regulated  
Power Supply**

**Broadband Amplifier**

**Channel Mask Filter**

# **LARCAN**

LARCAN USA • 1390 Overlook Drive • Lafayette, CO 80026

www.larcant.com Phone: (303)665-8000 • Fax: (303)673-9900 • Email: sales@larcant.com

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MXD 1V - FCC Certification No.:  
BZ5MXD1V

## MXD 1V SPECIFICATIONS

THE **MXD Series** IS THE NEW STANDARD IN BROADCAST TRANSMITTERS. DESIGNED UPON THE PRINCIPLES OF

- SIMPLICITY
- RELIABILITY
- MODULARITY
- SERVICEABILITY

THEY ARE BUILT TO LAST. PERIOD.

### BROADBAND DESIGN

WITH STATE-OF-THE-ART BROADBAND AMPLIFIERS.

### LINEAR, REGULATED POWER SUPPLY

RESPONSIBLE FOR PROVIDING DEPENDABLE, UNINTERRUPTED SERVICE WITH MINIMAL MAINTENANCE REQUIREMENTS AND MAXIMUM SURGE PROTECTION - TO KEEP YOU ON THE AIR.

### FIELD TESTED FOR DIGITAL

THE AMPLIFIERS COME FROM THE LARCAN FIELD-TESTED GENERATION OF DTV TRANSMITTERS, WHICH MAKES THE **MXD Series** THE EQUIPMENT OF CHOICE FOR THE FUTURE.

Due to continuous product improvements, specifications subject to change without notice.

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### Transmitter - ATSC

<b>Output</b>	Power	1W
	Frequency	54-88 MHz 174-216 MHz
	Output Connector	N-Type
	Out-of-Band Emissions	FCC mask
	Signal-to-Noise	27dB
	Pilot Phase Noise	-101 dBc/Hz (20kHz offset)
	Pilot Carrier Frequency Stability	10kHz

<b>Input</b>	Interface	SMPTE310M
	Bit Rate	19.39 MB/s
	Symbol Clock Frequency	10.762238 MHz
	Impedance	75 Ohms

<b>General</b>	Power Requirements	95 Watts
	Voltage	95-130 VAC
	Dimensions	h w d
	(inches)	5.25 19 10.5
	Temperature Range	0 to 45 C
	Humidity	95%

### Translator - ATSC

<b>Output</b>	Power	1W
	Frequency	54-88 MHz 174-216 MHz
	Output Connector	N-Type
	Out-of-Band Emissions	FCC mask
	Signal-to-Noise	27dB
	Pilot Phase Noise	-101 dBc/Hz (20kHz offset)
	Pilot Carrier Frequency Stability	10kHz

<b>Input</b>	Frequency Range	54-806 MHz
	Connector	F-Type
	Input level	-78 to -8 dBm/6MHz
	Impedance	75 Ohms

<b>General</b>	Power Requirements	95 Watts
	Voltage	95-130 VAC
	Dimensions	h w d
	(inches)	5.25 19 10.5
	Temperature Range	0 to 45 C
	Humidity	95%

\*NOTE: For more detailed translator specifications, please refer to the 8VSB REGEN Transcoder Datasheet.

