

NEW
MXi Series
Digital / Analog Solid State VHF Transmitters
1Watt to 200Watts and beyond



**MXi Series 100W
ATSC Solution**

MXi Series: *Incite.* Intuitive Digital Progress. *Anywhere.*

LARCAN's *new* Low Power Series of transmitters provides digital progress with any standard – *anywhere.* Choose from 1Watt to 200Watts Digital VHF and beyond.

Designed to address the innovative needs of emerging Digital and Mobile markets and Single Frequency Networks worldwide – MXi Series is a complete solution for broadcast applications, mobile video and beyond. MXi Series also meets all your analog needs with innovations in design and superior performance.

MXi Series is a simple and intuitive solution – embodied in a compact design. With features that utilize a touch-sensitive LCD display – designed to monitor and report all operating parameters – you are ensured of superior digital quality across all standards. The MXi Series' amplifier is true broadband – with innovations in delivering extreme linearity, anywhere.



LARCAN's MXi Series delivers broadcast innovation and unsurpassed digital performance by design. Developed from 'start to success' with the same renowned LARCAN quality and design of our high power broadcast solutions – the MXi Series seamlessly integrates proven technology with the next steps in rugged and rich digital delivery.

A compact design with clear and consistent results – it's the best choice for broadcasters worldwide looking for next generation innovations in broadcast network solutions.

**MXi Series: *Incite*. Intuitive Digital Progress. *Anywhere*.
Digital Solutions for Broadcast and beyond
Choose from 1Watt to 200Watts Digital VHF**

- Capable of all Standards in Analog and Digital
- State-of-the-art Digital Modulator for optimum performance
- Broadband Design, Frequency Agile
- Same High Performance FET amplifier design used in proven M Series
- Field Proven for Digital Operation
- Fully Regulated Power Supplies
- Compact and Reliable
- Integrated Cooling System designed for extreme conditions



MXi Series

Digital / Analog Solid State VHF Transmitters
1Watt to 200Watts and beyond

LOOK TO LARCAN FOR TRULY MADE TO MEASURE SOLUTIONS

LARCAN's MXi Series is 'customer-fit' engineered to produce a superior digital signal, anywhere. Our Digital solutions bring you the best in broadcast technology. Customer driven and purpose designed for optimum performance across all standards, digital and analog – we integrate our expertise with your unique application to deliver results.

Our broadcast solutions are the product of innovation at its best – delivering superior performance, quality, reliability and service.
A solid, simple and superior digital design – LARCAN is the best fit for broadcasters who want the ultimate in performance.



Looking for a Better Fit?
We hear you. Loud and clear.



**MXi Series
50W Solution**

A complete solution for your Digital and Single Frequency Network broadcast needs – the MXi Series is available from 1Watt to 200Watt digital.

Each of the MXi Series solutions are complete with digital modulator, power supplies and air-cooling fans and filters. The result is digital innovation and intuitive performance. LARCAN, your best digital fit!

**LARCAN State-of-the-art
Amplifier Technology**





New MXi Series
MXi Series - Digital VHF
ATSC Transmitter Specifications

Transmitter model number:		MXi101V	MXi201V	MXi401V
Specification:		ATSC	ATSC	ATSC
Output	Power	50W	100W	200W
	Frequency		174-230 MHz	
	Output Connector		N-type	
	Out-of-Band Emissions		FCC Mask (Part 74 stringent or relaxed)	

Transmitter - Specification

Signal-to-Noise	28dB
EVM	3%
Interface	ASI
Bit Rate	19.39 MHz
Symbol Clock Frequency	10.762238 MHz
Impedance	75 ohms
Linear Precorrection Capability	31 Taps
Pilot Phase Noise	-101 dBc/Hz (20kHz offset)

Translator - Specification

RF Input Frequency Range	54-806 MHz
RF Input Impedance	75 ohm (F-connector)
Input Level	-78 to -8 dBm
White Noise Threshold of Errors	15.5dB
Linear Precorrection Capability	31 Taps
Pilot Phase Noise	-101 dBc/Hz (20kHz offset)

General	Power Requirements		kVA	0.4	0.7	1.5
		Voltage		120-240 VAC 50/60Hz		208-240VAC 50/60Hz
	Dimensions	h	in	5.25	5.25	10.5
		w	in	19	19	19
		d	in	24	24	24
	Temp Range			0 to 45 °C		
	Altitude			10000 ft AMSL		
	Humidity			95%		
	Cooling			Forced Air		