

# M SERIES

Analogue Solid State VHF Transmitter  
250watts to 80kW and beyond



M SERIES 20kW

## M Series: The Evolution of Absolute Performance

Trusted, tested and true - LARCAN's M Series combines technological innovation with our renowned expertise and experience in broadcast solutions worldwide.

M Series is the original in state-of-the-art high power broadcast technology. Its reputation for delivering the absolute in performance is the result of our commitment to providing you with optimized solutions.

Performance-driven to ensure you a solid broadcast signal - M Series is the ultimate in design simplicity and dependability.

M Series: Design Simplicity and Performance Innovation Defined.  
*Experience Analogue at its Best.*

Choose 250watts to 80kW and beyond!

- Accepted World Standard
- The Ultimate in Design Simplicity
- Highly Linear Solid State Broadband PA Modules
- High Power Stripline Combining Techniques
- Rugged Linear Power Supplies
- Reliable with Proven Dependability
- Modular for Ease of Service
- Extensive Monitoring & Diagnostics
- Versatile 'Pull-thru' cooling system design simplifies installation
- Custom Solutions and configurations to fit your needs
- Worldwide LARCAN support

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Analogue Solid State VHF Transmitter

## LOOK TO LARCAN FOR TRULY MADE TO MEASURE SOLUTIONS

LARCAN's M Series is 'customer-fit' engineered to produce a superior analogue signal - Loud and Clear, every time. M Series is the definitive in solid state design - the evolution of absolute performance.

M Series includes a full range of high performance TV broadcast transmitters -using LARCAN's own proven Solid State and broadband technologies.

M Series integrates our simple and innovative approach to solid state design to deliver customized solutions fit to your specific needs. Field proven worldwide, our M Series is a rugged and renowned choice for broadcasters - everywhere.

A high performance solution for your broadcast needs - M Series delivers uncompromised quality, reliability, and serviceability. Field proven for digital broadcasting, we provide optimum strength for your analogue signal - making your future transition to digital a smooth and successful one.

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



**LARCAN**  
Leaders in Stripline  
Technology

**LARCAN**  
We hear you. Loud and clear.

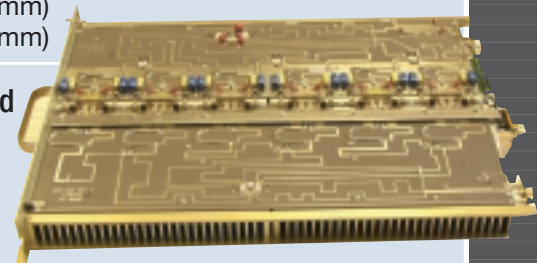
### M Series 20kW Specifications

#### CCIR System B / D Transmitter

Output	Power	20kW Vision / 2.2kW Sound		
	Frequency	54-88 MHz / 174-230 MHz		
	Output Connector	3 1/8" EIA Unflanged		
Input	Input Impedance	75 ohms, unbalanced		
	Input Level	0.5 to 2.0 V p-p		
Performance	System B		System D	
	-4.43 MHz	-42 dB	-4.43 MHz	-42 dB
	-1.25 MHz and lower	-24 dB	-1.25 MHz and lower	-24 dB
	Carrier to -0.5 MHz	±0.5 dB	Carrier to -0.5 MHz	±0.5 dB
	Carrier to +200 kHz	0 dB	+1.5 MHz	0 dB
	Carrier to +5.0 MHz	±0.5 dB	Carrier to +5.8 MHz	±0.5 dB
	5.0 MHz to 7.0 MHz	-30 dB	6.5 MHz to 8.0 MHz	-30 dB
	Frequency Stability	±200 Hz		
	Harmonic Radiation	-80 dB		
Vision	Differential Phase	±1°		
	Differential Gain	3%		
	Variation with Brightness	±0.5 dB		
	2T Pulse Response	1%		
	ICPM	±2°		
	Video Noise	-55 dB		
Sound	FM Noise	-62 dB		
	AM Noise	-60 dB		
	Distortion	0.5%		
	Response	±0.5 dB		
General	Power Requirements	49kW Black Picture		
	Voltage	220/380/415 VAC 3 Phase 4 Wire		
	Temp Range	50/60Hz		
		0 to +45° C		
Dimensions	Height	2000.25 (mm)		
	Width	2171.7 (mm)		
	Depth	1117.6 (mm)		

Each of our Analogue VHF transmitters are designed with LARCAN's world-renowned broadband solid state technology, FET-based amplifiers and unique broadband stripline combining techniques.

The result is innovation - unprecedented levels of power density and superior linearity.



**LARCAN Broadband  
Solid State Technology**

U.S. Tel: 1-303-665-8000 • Fax: 1-303-673-9900 Canada Tel: 1-905-564-9222 • Fax: 1-905-564-9244  
[www.larcan.com](http://www.larcan.com)

Email: [sales@larcan.com](mailto:sales@larcan.com)