

# M SERIES

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



M SERIES 30kW

## 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 Analog 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

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## LOOK TO LARCAN FOR TRULY MADE TO MEASURE SOLUTIONS

LARCAN's M Series is 'customer-fit' engineered to produce a superior analog 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 analog 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.

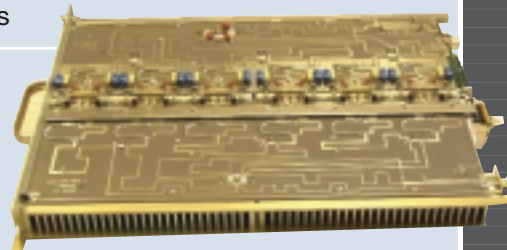
### M Series 30kW Specifications

#### NTSC Transmitter

Output	Power Frequency Output Connector	30kW Visual / 3kW Aural 54-88 MHz / 174-216 MHz 3 1/8" EIA Unflanged
Input	Input Impedance Input Level	75 ohms, unbalanced 0.5 to 2.0 V p-p
Performance	-3.58 MHz -1.25 MHz and lower Carrier to -0.5 MHz Carrier to +200 kHz Carrier to +4.0 MHz 4.0 MHz to 4.18 MHz 4.75 MHz to 7.75 MHz Frequency Stability Harmonic Radiation	-42 dB -24 dB +0.5 dB 0 dB (ref) $\pm 0.5$ dB 0.5-1.0 dB -40 dB $\pm 200$ Hz -80 dB
Video	Differential Phase Differential Gain Variation with Brightness 2T Pulse Response ICPM Video Noise	$\pm 1^\circ$ 3% $\pm 0.5$ dB 1% $\pm 2^\circ$ -55 dB
Audio	FM Noise AM Noise Distortion Response	-62 dB -60 dB 0.5% $\pm 0.5$ dB
General	Power Requirements Voltage Temp Range	68 kW Black Picture 200 to 242 VAC 3 Phase 4 wire 0 to +45° C
Dimensions	Height Width Depth	78.75 inches 85.5 inches 44 inches

Each of our Analog 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**

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