

# MAGNUM

Digital Solid State UHF Transmitter  
2.5kW to 20kW and beyond



MAGNUM 20kW MODEL SHOWN

## MAGNUM: The Definitive in Digital Power

LARCAN's Magnum Series – an award winning solution that delivers new technology and innovation at its best. A 'bullet-proof' design – Magnum is an elegant, non-nonsense transmitter that fits your broadcast needs.

It's a smart choice for broadcasters that demand a superior digital signal

Magnum delivers like no other transmitter –

Choose 2.5kW, 5kW, 10kW, 15kW, 20kW or beyond!

- 100% Solid State UHF Transmitter
- Broadband Amplifier (No tuning Adjustments)
- Customizable Cooling System
- Extensive Monitoring and Diagnostics
- Cost Effective, High Performance
- Reliable and User Friendly
- Magnum is the product of engineering at its best!

# MAGNUM

Digital Solid State UHF Transmitter

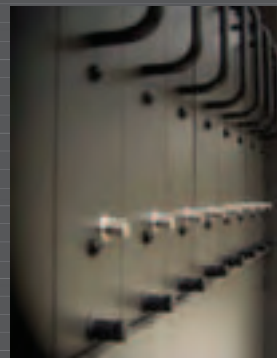
## MAGNUM – A Smart Digital Choice

Magnum is the work of engineering at its best – a solid and superior design for broadcasters who want the ultimate in a digital signal.

The award winning Magnum series of digital solid state UHF transmitters is built on pure performance, delivering the definitive in digital power.

Innovative features include our broadband LDMOS amplifiers, which require no tuning and offer the ruggedness and reliability you've come to expect from LARCAN.

Looking for the best in digital?  
*We hear you. Loud and clear.*



### MAGNUM 20kW Specifications

#### ATSC Transmitter

Output	Power	20kW
	Frequency	470-860 MHz
	Output Connector	4-1/16 EIA Flanged
	Out-of-Band Emissions	FCC Mask
	Signal-to-Noise	30 dB
	EVM	3%
	Pilot Phase Noise	-105 dBc/Hz (20kHz offset)
	Precision Frequency Offset Option	Any offset, 1Hz step size
	Pilot Carrier Frequency Stability	±150 Hz
Input	Interface	SMPTE310M
	Bit Rate	19.39 MHz
	Symbol Clock Frequency	10.762238 MHz
	Impedance	75 ohms
General	Power Requirements	125 kVA
	Voltage	200-240 VAC 3 Phase 4 Wire*
	No. of Cabinets	5
	Temp Range	0 to 40 ° C
	Altitude	to 7500 ft.
	Humidity	95%
	Cooling	Forced Air
Dimensions	Height	78 inches
	Width	158 inches
	Depth	42 inches

\*Other voltages available upon request

Magnum's PA Module design combines the expertise and experience of our legendary M Series transmitters with an innovative new stripline coupler design (patent pending). The result is innovation – unprecedented levels of power density and superior linearity.

