

UPGRADABLE TO

HD Radio[®]
Digital AM & FM



NV^{LT} Series
HD Radio Upgrade

NV^{LT} HD Radio Field Upgrade

NV^{LT} Series transmitters can be easily field-upgraded to support HD Radio™ transmission*. The NV^{LT} HD Radio upgrade kit consist of a digital capable exciter, an HD Radio Engine, and updated firmware.

Upgraded NV^{LT} transmitters include Nautel's award winning HD PowerBoost™ GEN⁴ and support for Asymmetrical sidebands.



HD PowerBoost™ GEN⁴

Asymmetrical Sidebands

-10dB

NV^{LT} with HD Radio Upgrade Performance

NV ^{LT} SERIES		NV3.5 ^{LT}	NV5 ^{LT}	NV7.5 ^{LT}	NV10 ^{LT}	NV15 ^{LT}	NV20 ^{LT}	NV30 ^{LT}	NV40 ^{LT}
Analog Only	Max Power	4.1 kW	5.5 kW	8.2 kW	11 kW	16.5 kW	22 kW	33 kW	44 kW
	Typical Efficiency	71%	72%	71%	72%	71%	72%	71%	72%
FM + HD -20dB	Total Avg Power MP1 ¹	3.9 kW	5.2 kW	7.8 kW	10.4 kW	15.5 kW	20.7 kW	31.1 kW	41.4 kW
	Analog Power MP1 ¹	3.8 kW	5.1 kW	7.7 kW	10.3 kW	15.4 kW	20.5 kW	30.8 kW	41.0 kW
	Analog Power MP3 ¹	3.8 kW	5.0 kW	7.5 kW	10.0 kW	15.0 kW	20.0 kW	30.0 kW	40.0 kW
	Typical Efficiency	70%	70%	70%	70%	70%	70%	70%	70%
FM + HD -14dB	Total Avg Power MP1 ¹	3.6 kW	4.8 kW	7.2 kW	9.6 kW	14.4 kW	19.2 kW	28.9 kW	38.5 kW
	Analog Power MP1 ¹	3.5 kW	4.6 kW	6.9 kW	9.3 kW	13.9 kW	18.5 kW	27.8 kW	37.0 kW
	Analog Power MP3 ¹	3.4 kW	4.5 kW	6.8 kW	9.0 kW	13.5 kW	18.0 kW	27.0 kW	36.0 kW
	Typical Efficiency	60%	60%	60%	60%	60%	60%	60%	60%
FM + HD -10dB	Total Avg Power MP1 ¹	2.8 kW	3.7 kW	5.6 kW	7.4 kW	11.1 kW	14.9 kW	22.3 kW	29.7 kW
	Analog Power MP1 ¹	2.5 kW	3.4 kW	5.1 kW	6.8 kW	10.1 kW	13.5 kW	20.3 kW	27.0 kW
	Analog Power MP3 ¹	2.5 kW	3.3 kW	5.0 kW	6.6 kW	10.0 kW	13.0 kW	20.0 kW	26.0 kW
	Typical Efficiency	55%	55%	55%	55%	55%	55%	55%	55%
HD Only -20dB	Max Power MP3 ¹	2.1 kW	2.8 kW	4.1 kW	5.5 kW	8.3 kW	11.0 kW	16.5 kW	22.0 kW
	Typical Efficiency	56%	56%	56%	56%	56%	56%	56%	56%
HD Only -14dB	Max Power MP3 ¹	1.7 kW	2.3 kW	3.4 kW	4.5 kW	6.8 kW	9.0 kW	13.5 kW	18 kW
	Typical Efficiency	54%	54%	54%	54%	54%	54%	54%	54%
HD Only -10dB	Max Power MP3 ¹	1.5 kW	2.0 kW	3.0 kW	4.0 kW	6.0 kW	8.0 kW	12.0 kW	16.0 kW
	Typical Efficiency	52%	52%	52%	52%	52%	52%	52%	52%

⁽¹⁾ Typical Power measured with 1.1:1 VSWR

Specifications subject to change. Please refer to individual product specification sheets for full product details.

* Some early versions of NV^{LT} transmitters may require upgraded power modules to support HD capability. Please contact Nautel customer service to confirm your upgrade requirements.

Power outputs vary with injection level, frequency, VSWR, MP operating mode, and symmetrical vs. asymmetrical sidebands. Please contact your Nautel representative to discuss your specific HD power requirement.

Making Digital Radio Work.

Nautel has emerged as one of the world's largest manufacturers of radio broadcast transmitters with more than 16,000 deployments in 177 countries.

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