

NX1000RM



1kW FM Transmitter With Double Power Backup

In harsh environments, where the power source may be unreliable, the new NX1000RM transmitter ensures the continuity of the FM broadcast service thanks to its advanced Double Power Backup

The **NX1000RM** is capable of withstanding major power supply events that could compromise its regular operation. This ensures the continuity of FM broadcast service.

The **NX1000RM** is not affected by blackouts or power surges that could damage its internal power supply and thus disrupt its operation. This is how the **Double Power Backup** works.



IN CASE OF...	DOUBLE POWER BACKUP...
...230V _{AC} power blackout	...switches the external 24÷48V _{DC} power supply source*
...230V _{AC} main power supply failure	...selects the internal 230V _{AC} auxiliary power supply*
...230V _{AC} auxiliary power supply failure	...switches the external 24÷48V _{DC} power supply*

* In this condition the transmission power is reduced to a quarter of the nominal power (250 W).

But that's not all, the **NX1000RM** is packed with many other qualities that make it indispensable for demanding applications.

Connectable To Many Types Of External DC Sources

The **external DC power input** accepts a wide range of 24 to 48V_{DC} power devices (not supplied): batteries, additional DC power supplies, generators, etc.

Easy to Use

The **NX1000RM** features a large LCD display and a control panel with an intuitive menu that makes it easy to use and configure.

Remotely Supervised

When one of the above events occurs, the **internal Ethernet/GSM remote control card** (optional) promptly informs the broadcast network manager who can also send commands remotely.

Low Power Consumption

NX1000RM boasts **high energy efficiency** which reduces energy consumption with **minimal operating costs** and at the same time increases reliability



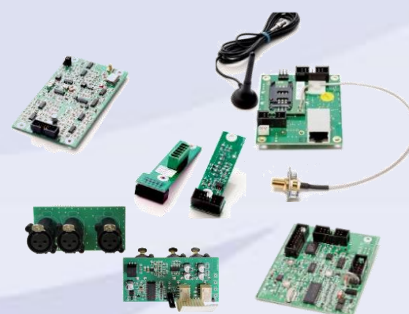
Flexible Use

The **NX1000RM** is ideal for a wide range of applications, such as **N+1 systems** and as a **backup transmitter**.

Wide range of options

The **NX1000RM** comes standard with all the connections necessary for normal operation, which can be further expanded through a **wide range of options**.

OPTIONS	
STEREO ENCODER	SEXC23COD2
WEB SERVER+GSM	SEXC30REMD/REMD+)
RS485 INTERFACE	SEXC30RS485
AES/EBU DIGITAL AUDIO INTERFACE	EXC25DAC
RDS BOARD	SEXC30RDS





TECHNICAL DATA		
Frequency range	87,5 ÷ 108 MHz	
Transmitter tuning steps	10/100 kHz	
Frequency Stability / Error (FM)	± 250Hz when in temperature / 100Hz/year	
Modulation	75 kHz peak, adjustable (180KF3E/256KF8E)	
MPX Audio Input Level (SCA)	-3,5 ÷ +12,5 dBm @ 75 kHz deviation	
Auxiliary Channel Input Level (RDS/SCA)	-12,5 ÷ +3,5 dBm @ 7,5 kHz deviation	
Modulation Distortion	<0,03%, typical 0,02% @ Deviation 75 kHz	
Mono S/N Ratio	30÷20000Hz	>76 dB, typical 83
	CCIR	>75 dB, typical 79
Stereo S/N Ratio	30÷20000Hz	>72 dB, typical 77
	CCIR	>68 dB, typical 72
Audio channel frequency response	30÷15000 Hz	±0.1 dB
MPX input frequency response	30÷100000 Hz	±0.1 dB
Pre emphasis time constant	Selectable to 0/50/75 µs	
Nominal RF output power	1,000W	
ALC output power stability	±3%	
Spurious and harmonic emissions	<70dB (harmonics), <80 dBc (spurious)	
RF output connector	7/16"	
Power supply	Single phase voltage	230 V _{AC} +10/-15%
	Three-phase voltage	N.A.
	Ext. power supply	20 ÷ 48 V _{CC}
Total consumption	<1,500W	
Operating temperature range	Recommended	0 ÷ 35 °C
	Extreme	-10 ÷ +45 °C (50°C with reduction)
Relative humidity	Up to 95% without condensation	
Dimensions (W x H x D)	483 x 88 x 585 mm	
Weight	11kg	

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