

## Compact Direct Digital FM Transmitters: Mozart DDS Series from 30W to 3.5kW

### The incredible pureness of audio modulation in FM Broadcasting thanks to Direct Digital Technology

Mozart DDS FM Transmitter / Exciter Series is the latest audio excellence in the FM Broadcasting industry thanks to latest generation Direct Digital technology.



#### MAIN BENEFITS

**Superior audio quality and sound pureness** thanks to the Direct Digital technology

**Suitable for SFN networks application**, with internal modulation phase adjustment to optimize SFN network setting.

**The highest AC efficiency**, reaching over 70% for power over 1 kW, obtained by GREEN RF™ technology.

**Low maintenance costs**, thanks to the easy access to all components, externally accessible cooling air filters and fans, very high MTBF for RF and power supply modules.

**Reduction of transport costs and simplified logistics** thanks to its compact design and low weight.

**Highest frequency stability** due to Direct Digital technology

Complete WEB SERVER or SNMP Remote Control\*.

**Frequency Agile**. Broadband with 1 KHz step, set by software via LCD front panel display or via remote control without any tuning needing.

**Uninterrupted service** thanks to an intelligent protection system that reduces the output power without on-air interruption, keeping the RF devices always within the safe operating parameters in case of:

- ▶ Load mismatching
- ▶ Environmental over-temperature
- ▶ Cooling failure
- ▶ Amplifier breakdown

#### MAIN FEATURES:

**Stereo Generator**, high performance built-in digital stereo coder provides separation typical > 75dB and Signal/Noise ratio >90dB assuring the highest audio quality.

**Input sensitivity and output deviation** adjustable with very high precision (0,1dB) through front panel display or remotely by web interface.

**AES/EBU**, digital stereo audio interface.

*Meets or exceeds all international standards for safety and electrical specifications*

## Efficiency Enhancement

Mozart design is optimized to get minimum RF losses and excellent performances of the active elements in order to increase the AC efficiency up to more than 70%.



Latest generation LD-MOS devices increase DC to RF efficiency up to 85%, with a drastic reduction of energy consumption.



Hot-plug fans: 2 minutes maintenance time, no need to open or switch off the unit.

**Dynamic RDS\***, built-in dynamic RDS coder.

**Automatic Audio switch**, to select input signals and set the input program priority.

**Powerful modulation limiter**, keeping the maximum frequency deviation within international standards requirements, to avoid over modulations and adjacent channels interferences (the limiter can be soft or hard, threshold easily adjustable via web GUI interface).

**Presence of multiple memory profiles**, to store the main configuration parameters, with easy user recall.

**Storing configuration**, with the actual active memory configuration that can be downloaded, stored and uploaded in another unit to set it with the same configuration without any other adjustment.

**Firmware upgradeable**, locally (by USB) or remotely (by WEB GUI).

**Log file**, with every TX alarm event tracked. The Log file can be saved in the PC in common text format. An email can be sent in case of alarm, with the status of the unit and log file.

**Daily scheduler**, available to manage different output power level scheduled setting during the day.

**Switch-mode power supply**, highly efficient and widely over-rated power supply modules ensuring low heating, low AC power consumption and superior reliability. The PFC circuitry meets all international requirements for mains network disturbances.

**High efficiency air cooling system**, with heat-sink temperature rising only max 10°C above ambient temperature. This guarantees perfect functioning even in sites with extreme climate conditions and high temperatures.

**Fast FANS replacement**, with amplifier modules equipped with external easily accessible redundant fans to allow instant cleaning and replacement, without opening or removing any module and without affecting in any way the on-air transmission.

*\* optional*

#### Mozart FM Transmitters



Over 70% RF Efficiency



High Scalability



Remote Control