

# exciters/all-in-one transmitters

- > professional series
- > digital series

**PTX30 DDS PTX150DDS  
PTX100DDS**

**FULL DIGITAL**



PTX150DDS front view

## Features

**PTXDDS is the ultimate digital evolution of the most sold professional FM transmitter world-wide!**

- > **AUDIO PERFORMANCE:** clear and transparent sound comparable to CD sound quality made possible thanks to a noise/signal ratio as low as 90dB, low distortion and stereo separation as high as 70dB!
- > **PRIMARY APPLICATION:** Optimal for use as an independent exciter. Adjustable power output from 0 to 100%.
- > **AUDIO FEATURE:** incorporated a board with DSP for isofrequency applications (SFN) and a limiter on audio (ITU) to ensure controlled emissions in the spectrum, created **COMPLETELY DIGITAL** and free from mechanical disturbances.
- > **AUDIO RESCUER:** integrated, the established timing and priority of all audio inputs (Analog-Digital-MPX) are programmable.
- > **INTERFACE CONTROL:** totally microprocessor-controlled, easily programmed from menu through a large LCD and useful optical ENCODER.
- > **INPUT/OUTPUT INTERFACE:** built-in high-performance stereo coder, L&R analogue audio inputs, Mono inputs, MPX composite signal and auxiliary inputs for SCA / RDS signals. S/PDIF, TOSLINK, AES/EBU digital audio inputs are available as standard.
- > **REMOTE CONTROL:** built-in telemetry system via GSM modem, battery and battery charger or via WEB or via SNMP (option).
- > **RELIABILITY/CONTINUITY:** business continuity is guaranteed by an incredible range and variety of controls, such as Fold-Back control for effective VSRW (Voltage Standing Wave Ratio) protection and IAMLC (Intelligent Automatic Modulation Level Control) to keep modulation level steady.
- > **RDS APPLICATION:** built-in digital RDS encoder with UECP standard functions.
- > **EASE OF MAINTENANCE:** advanced module engineering ensures extreme of access and simple maintenance.
- > **REGULATORY COMPLIANCE:** state-of-the-art technology in full compliance with EC, FCC and CCIR standards.

## Caratteristiche

**Il PTXDDS è la massima espressione digitale del trasmettitore FM professionale più venduto al mondo!**

- > **AUDIO PERFORMANCE:** chiarezza ed una limpidezza del suono paragonabile alla qualità CD resa possibile da un basso rapporto segnale/rumore 90dB, da una bassa distorsione e ad un'alta separazione stereo 70dB!
- > **PRIMARY APPLICATION:** Ottimale come eccitatore indipendente con potenza di uscita regolabile con continuità uscita regolabile dal 0 al 100%.
- > **AUDIO FEATURE:** Integra una scheda con DSP per applicazioni in isofrequenza (SFN) e le limitazioni audio (ITU) per garantire emissioni controllate nello spettro generato **TOTALMENTE in DIGITALE** e privo di disturbi meccanici.
- > **AUDIO RESCUER:** Integrato e programmabile nei tempi e nelle priorità su tutti gli ingressi audio (Analog-Digital-MPX).
- > **INTERFACE CONTROL:** completamente controllati da microprocessore e facilmente programmabili da menu con grande display LCD e comodo ENCODER ottico.
- > **INPUT/OUTPUT INTERFACE:** stereo coder integrato ad elevate prestazioni, ingressi audio analogici L&R, mono, segnale composito MPX ed ausiliari per segnali SCA / RDS. Ingressi S/PDIF, TOSLINK, AES/EBU disponibili di serie.
- > **REMOTE CONTROL:** sistema di telemetria integrato via modem GSM, batteria e caricabatteria o via WEB o via SNMP (versione vendibile opzionalmente).
- > **RELIABILITY/CONTINUITY:** elevata continuità di esercizio garantita da un'incredibile gamma di controlli come il controllo del Fold-Back per una effettiva protezione del VSRW (Voltage Standing Wave Ratio).
- > **RDS APPLICATION:** encoder RDS digitale integrato con funzionalità aggiornate ed evolute rispetto alle specifiche UECP standard.
- > **EASE OF MAINTENANCE:** estrema accessibilità e semplicità di manutenzione grazie ad una avanzata ingegnerizzazione modulare dell'apparato.
- > **REGULATORY COMPLIANCE:** tecnologia moderna e pienamente rispondente alle normative EC, FCC ed CCIR.

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BROADCAST  
EQUIPMENT

## Technical specifications

| Parameter                        | PTX30DDS   | PTX100DDS  | PTX150DDS                    |       |
|----------------------------------|--|--|------------------------------|-------|
| <b>GENERALS</b>                  |  |  |                              |       |
| Frequency range                  | FCC - CCIR - OIRT - JPN - CHN                            |  |                              |       |
| Rated output power               | 30 W   | 100 W  | 150 W                        |       |
| Modulation type                  | Direct carrier frequency                                 |  |                              |       |
| Operational Mode                 | Mono, Stereo, Multiplex                                  |  |                              |       |
| Environmental working conditions | -10 °C to + 50 °C / 95% relative Humidity non condensing |  |                              |       |
| Frequency programmability        | From software with 1, 10, 100, 1000 kHz steps            |  |                              |       |
| Frequency stability              | WT from -10°C to 50°C                                    | ±1 ppm   |                              |       |
| Modulation capability            | 150 kHz  |  |                              |       |
| Pre-emphasis mode                | 0 μS, 50 μS (CCIR), 75 μS (FCC)                          |  |                              |       |
| <b>POWER REQUIREMENTS</b>        |  |  |                              |       |
| AC Power Input                   | AC Supply Voltage  | 115 / 230 ±15% VAC   |                              |       |
|                                  | Active Power Consumption                                 | 160 W  | 250 W                        | 310 W |
|                                  | Overall Efficiency                                       | 31 %   | 33 %                         | 40 %  |
|                                  | Connector  | VDE IEC Standard   |                              |       |
| <b>MECHANICAL DIMENSIONS</b>     |  |  |                              |       |
| Physical Dimensions              | L x H x W  | 483 mm x 88 mm x 400 mm  |                              |       |
| Weight                           |  | about 10 kg  |                              |       |
| Cooling                          |  | Forced, with internal fan  |                              |       |
| Acoustic Noise                   |  | < 56 dBA   |                              |       |
| <b>AUDIO INPUTS</b>              |  |  |                              |       |
| Left & Right                     |  | 10 kOhm or 6000hm (XLR F) Level: -12,5 to +12,5 dBu  |                              |       |
| MPX unbalanced                   |  | 10 kOhm (BNC) Level: -12,5 to +12,5 dBu  |                              |       |
| SCA/RDS                          |  | 10 kOhm (2x BNC) Level: -30 to +13 dBu   |                              |       |
| AES/EBU                          |  | 110 Ohm (XLR F)  |                              |       |
| TOSLINK                          |  | TOSLINK F05 - EIAJ   |                              |       |
| <b>OUTPUTS</b>                   |  |  |                              |       |
| RF Output                        |  | 50 Ohm (N type)  |                              |       |
| RF Monitor                       |  | 50 Ohm (BNC) approx. -30 dBc   | 50 Ohm (BNC) approx. -40 dBc |       |
| Pilot output                     |  | Level: -12.5 to +5 dBu (0.1 dB step variable by software);<br>or -6.5 to +11 dBu (internally adjustable +6dBu by jumper);<br>or -0.5 to 17 dBu (internal jumper to increase the output level of +12dBu)                  |                              |       |
| MPX monitor                      |  | >600 Ohm (BNC) a Level: -12.5 to +5 dBu (0.1 dB step variable by software);<br>or -6.5 to +11 dBu (internally adjustable +6dBu by jumper);<br>or -0.5 to 17 dBu (internal jumper to increase the output level of +12dBu) |                              |       |
| <b>FUSES</b>                     |  |  |                              |       |
| On Mains                         |  | 1 External fuse F 6,3 T - 5x20 mm  |                              |       |

All pictures are RVR's property and they are only indicative and not binding. The pictures can be modified without notice.  
These are general specifications. They show typical values and are subject to change without notice.

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## Ordering Information

| Code -Codice                                     | Description - Descrizione  |
|--|--|
| <i>Options for PTX-DDS – Opzioni per PTX-DDS</i> |  |
| /SFN-DDS   | Supports SFN applications.<br><i>Supporta applicazioni SFN.</i>                                  |
| /08DIG-DDS                                       | Telemetry via parallel interface.<br><i>Telemetria attraverso interfaccia parallela.</i>         |
| /09DIG-DDS                                       | Digital telemetry via SCM6 interface.<br><i>Telemetria digitale attraverso interfaccia SCM6.</i> |
| /10MHZ-DDS                                       | External 10 MHz input.<br><i>Ingresso riferimento 10 MHz esterna.</i>                            |
| /EXPRDS-DDS                                      | Serial extension card for RDS.<br><i>Scheda estensione seriale per RDS.</i>                      |
| /TLW-DDS-E                                       | WEB Telemetry extension card<br><i>Scheda estensione Telemetria WEB</i>                          |



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