

PTX-DDS SERIES

FULL DIGITAL DDS

from 30W to 1000W MODELS

PTX30DDS PTX150DDS
PTX100DDS PTX1000DDS



- **Full Digital modulation of the carrier directly on the operating frequency without any conversion.**
- **DDS "Direct to Channel" Exciter / Transmitter.**
- **Generates a RF signal free from mechanical disturbances.**
- **Clear and transparent digital audio .**
- **Noise / signal ratio as low as 90dB.**
- **Low distortion and stereo separation as high as 70dB.**
- **"SFN" Single Frequency Network (option).**
- **Full compliance with EC, FCC and CCIR standards.**
- **Standard Frequency Range: 87.5 - 108 MHz. Other bands on request.**
- **0% - 100% Output Power continuously adjustable.**
- **Fold-back control for effective "VSRW" protection.**
- **Includes IAMLC: Intelligent Automatic Modulation Level Control.**
- **Timing, Priority and Changeover functions on all audio inputs.**
- **Analogue Inputs: Analogue Stereo L&R, Mono, MPX.**
- **Digital Inputs: AES/EBU, S/PDIF, TOSLINK.**
- **Built-in high-performance stereo coder.**
- **Auxiliary input for SCA / RDS signals.**
- **Included ITU audio limiter to controll emissions into the spectrum.**
- **Suitable for isofrequency applications thanks to a optional SFN board.**
- **Built-in digital RDS encoder with UECP standard functions.**
- **WEB, SNMP2, GSM, Serial remote controls (option).**

ORDERING INFORMATION	
Model	Description
PTX30DDS	30W Compact Stereo Transmitter.
PTX100DDS	100W Compact Stereo Transmitter.
PTX150DDS	150W Compact Stereo Transmitter.
PTX1000DDS	1000W Compact Stereo Transmitter.

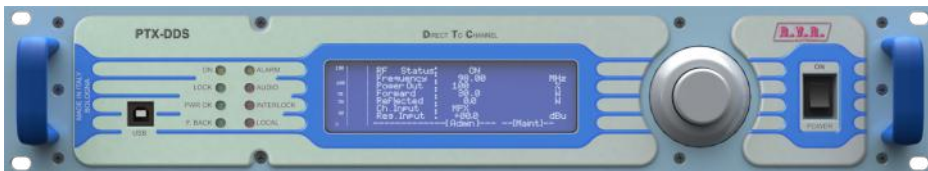
OPTION	
/SFN-DDS	Supports SFN applications.
/TLW-DDS-E	WEB & SNMP telemetry extension card.
/TLW-DDS-AOIP	Audio over IP , WEB , SNMP telemetry extension card.
/08-DIG-DDS	Telemetry via parallel interface.
/09-DIG-DDS	Digital telemetry via SCM6 interface.
/10MHZ-DDS	External 10MHZ cable.





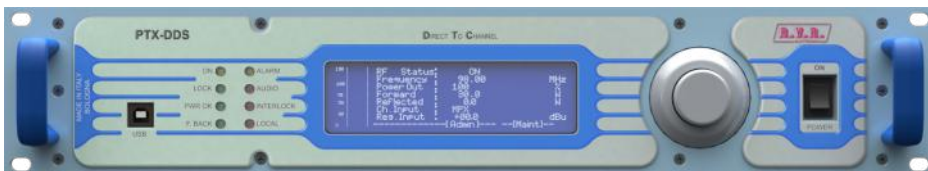
PTX30DDS

30W Compact Stereo Transmitter.



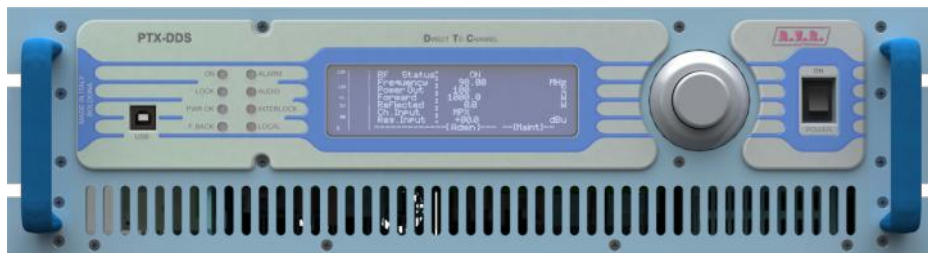
PTX100DDS

100W Compact Stereo Transmitter.



PTX150DDS

150W Compact Stereo Transmitter.



PTX1000DDS

1000W Compact Stereo Transmitter.



Parameters	U.M.	PTX30DDS		PTX100DDS		Notes
		Value		Value		
GENERALS						
Frequency range	MHz	87,5 ÷ 108				
Rated output power	W	30		100		Continuously adjustable from 10 to 100%
Modulation type		Direct Digital Synthesis				
Operational mode		Mono, Stereo, Multiplex				
Working temperature	°C	-5 to + 50				
Working humidity	%	95				Without condensing
Working altitude	m	Up to 3000				With adequate air evacuation system in site
Frequency programmability	kHz	From software, with 1, 10, 100, 1000				Steps
Frequency stability	Working Temp. from -5°C to 50°C ppm	±1				
Modulation capability	Referred @ 0dBu for 75kHz kHz	150				Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS	0, 50 (CCIR), 75 (FCC)				Selectable
POWER REQUIREMENTS						
AC Power input	AC Supply Voltage	VAC	115 / 230 ±15%			Internal switch
	AC Apparent Power Consumption	VA	280		410	
	Active Power Consumption	W	160		250	
	Power Factor		0,57		0,6	
	Overall Efficiency	%	Typical 18		Typical 40	
	Connector		VDE IEC Standard			
MECHANICAL DIMENSIONS						
Physical dimensions	Front panel width	mm / inch	483 / 19			EIA rack
	Front panel height	mm / inch	88 / 3 1/2 2HE			
	Overall depth	mm	400			
	Chassis depth	mm	389			
Weight	kg	About 10				
Cooling		Forced, with internal fan				
Acoustic noise	dBA	< 56				
AUDIO INPUTS						
Left / Mono	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	10 k or 600			
	Input Level / Adjust	dBu	-12,5 to +12,5			0,1 dB step adjustable
Right	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	10 k or 600			
	Input Level	dBu	-12,5 to +12,5			0,1 dB step adjustable
MPX	Connector		BNC			
	Type		Unbalanced			
	Impedance	Ohm	10 k			
	Input Level / Adjust	dBu	-12,5 to +12,5			0,1 dB step adjustable
SCA/RDS	Connector		2 x BNC			
	Type		Unbalanced			
	Impedance	Ohm	10 k			
	Subcarrier Level @ 0 dBu	dB	-17 to -40			0,5 dB step adjustable
AES/EBU (optional)	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	110			
TOS/Link (optional)	Connector		TOS LINK			
	Type		Optical			
OUTPUTS						
RF Output	Connector		N type			
	Impedance	Ohm	50			
RF Monitor	Connector		BNC			
	Impedance	Ohm	50			
	Output Level	dBm	Approx. -30		Approx. -40	
Pilot output	Connector		BNC			
	Load Impedance	Ohm	>600 k			
	Output Level	Vpp	2,2			Sinusoidal
FUSES						
On mains		1 External fuse F 6,3 AT - 5x20 mm				
On services		X				
On PA Supply		X				
On driver supply		X				

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.



R.V.R. Elettronica S.r.l.
Via del Fonditore, 2/2c
40138 Bologna Italy

Phone +39 0516010506
Fax +39 0516011104
sales@rvr.it - www.rvr.it



Parameters	U.M.	PTX150DDS		PTX1000DDS		Notes	
		Value		Value			
GENERALS							
Frequency range	MHz	87,5 ÷ 108					
Rated output power	W	150			1000	Continuously adjustable from 10 to 100%	
Modulation type		Direct Digital Synthesis					
Operational mode		Mono, Stereo, Multiplex					
Working temperature	°C	-5 to + 50					
Working humidity	%	95				Without condensing	
Working altitude	m	Up to 3000				With adequate air evacuation system in site	
Frequency programmability	kHz	From software, with 1, 10, 100, 1000				Steps	
Frequency stability	Working Temp. from -5°C to 50°C	ppm	±1				
Modulation capability	Referred to 0dBu for 75kHz	kHz	150				Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS	0, 50 (CCIR), 75 (FCC)				Selectable	
POWER REQUIREMENTS							
AC Power input	AC Supply Voltage	VAC	115 / 230 ±15%	80 ÷ 260		Internal switch	
	AC Apparent Power Consumption	VA	520	1460			
	Active Power Consumption	W	310	1450			
	Power Factor		0,61	0,99			
	Overall Efficiency	%	Typical 48	Typical 70			
	Connector		VDE IEC Standard	Terminal Block			
MECHANICAL DIMENSIONS							
Physical dimensions	Front panel width	mm / inch	483 / 19		EIA rack		
	Front panel height	mm / inch	88 / 3 1/2 2HE	132 / 5 1/4 3HE			
	Overall depth	mm	500				
	Chassis depth	mm	389				
Weight	kg	About 10		About 17			
Cooling		Forced, with internal fan					
Acoustic noise	dBA	< 56		< 65			
AUDIO INPUTS							
Left / Mono	Connector		XLR F				
	Type		Balanced				
	Impedance	Ohm	10 k or 600				
	Input Level / Adjust	dBu	-12,5 to +12,5		0,1 dB step adjustable		
Right	Connector		XLR F				
	Type		Balanced				
	Impedance	Ohm	10 k or 600				
	Input Level	dBu	-12,5 to +12,5		0,1 dB step adjustable		
MPX	Connector		BNC				
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	Impedance	Ohm	10 k				
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	Type		Balanced				
	Impedance	Ohm	110				
TOS/Link (optional)	Connector		TOS LINK				
	Type		Optical				
OUTPUTS							
RF Output	Connector		N type	7/8 type			
	Impedance	Ohm	50				
RF Monitor	Connector		BNC				
	Impedance	Ohm	50				
	Output Level	dBm	Approx. -40				
Pilot output	Connector		BNC				
	Load Impedance	Ohm	>600 k				
	Output Level	Vpp	2,2		Sinusoidal		
FUSES							
On mains		1 External fuse F 6,3 AT - 5x20 mm					
On services		X					
On PA Supply		X					
On driver supply		X					

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