PTX-DDS SERIES

FULL DIGITAL DDS

from 30W to 1000W MODELS

PTX30DDS PTX150DDS
PTX100DDS PTX1000DDS

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- **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

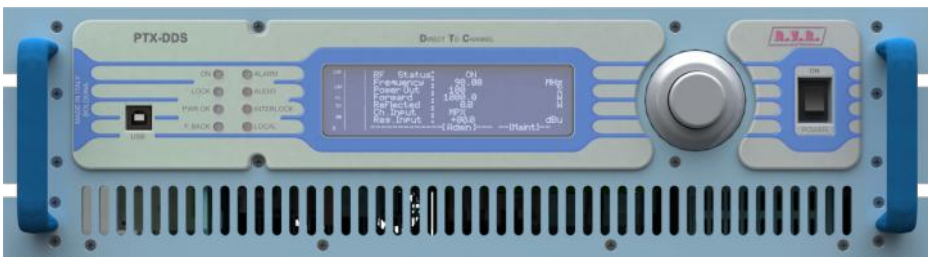
30W Compact Stereo Transmitter.

PTX100DDS

100W Compact Stereo Transmitter.

PTX150DDS

150W Compact Stereo Transmitter.



PTX1000DDS

1000W Compact Stereo Transmitter.

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			PTX30DDS	PTX100DDS	
Parameters		U.M.	Value		Notes
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	Refered @ 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					
Phisical 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		
	Subcarier 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		

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Parameters		U.M.	PTX150DDS	PTX1000DDS	Notes
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	Refered @ 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					
Phisical 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		
	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		
	Subcarier 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	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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Member of CISQ Federation

CERTIFIED MANAGEMENT SYSTEM
ISO 9001

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