

# PTX-LCDDSP SERIES

DSP EVOLUTION

from 30W to 150W

MODELS

PTX30LCDDSP  
PTX50LCDDSP

PTX100LCDDSP  
PTX150LCDDSP



- **Clear and transparent sound quality.**
- **Noise / signal ratio as low as 90dB.**
- **Low distortion and stereo separation as high as 60dB.**
- **Full compliance with EC, FCC and CCIR standards.**
- **"SFN" Single Frequency Network (option).**
- **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.**
- **Built-in high-performance stereo coder.**
- **Analogue Inputs: Analogue Stereo L&R, Mono, MPX.**
- **Digital Inputs: AES/EBU, S/PDIF, TOSLINK.**
- **Auxiliary input for SCA / RDS signals.**
- **Included ITU audio limiter to control emissions into the spectrum.**
- **Built-in digital RDS encoder with UECP standard functions.**

ORD RING INFORMATION	
Model	
<b>PTX30LCDDSP</b>	<b>30W</b> Compact Stereo Transmitter.
<b>PTX50LCDDSP</b>	<b>50W</b> Compact Stereo Transmitter.
<b>PTX100LCDDSP</b>	<b>100W</b> Compact Stereo Transmitter.
<b>PTX150LCDDSP</b>	<b>150W</b> Compact Stereo Transmitter.

OPTION	
<b>/SFN-PTX</b>	Supports SFN applications.
<b>/08DIG-PTX-16</b>	Telemetry system via parallel interface.
<b>/10MHZ-PTX</b>	External 10MHZ cable.



**PTX30LCDDSP**

30W Compact Stereo Transmitter.



**PTX50LCDDSP**

50W Compact Stereo Transmitter.



**PTX100LCDDSP**

100W Compact Stereo Transmitter.



**PTX150LCDDSP**

150W Compact Stereo Transmitter.



Parameters	U.M.	PTX30LCDDSP		PTX50LCDDSP		Notes
		Value		Value		
<b>GENERALS</b>						
Frequency range	MHz	87,5 ÷ 108				
Rated output power	W	30		50	Continuously adjustable from 10 to 100%	
Modulation type		Direct carrier frequency				
Operational mode		Mono, Stereo, Multiplex				
Working temperature	°C	-5 to + 50				
Working humidity	%	85				Without condensing
Working altitude	m	Up to 3000				With adequate air evacuation system in site
Frequency programmability	kHz	From software, with 10				Steps
Frequency stability	Working Temp. from -5°C to 50°C ppm	±1				
Modulation capability	Referred @ 0dBu for 75kHz	150 Stereo, 200 Mono/MPX				Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS	0, 25, 50, (CCIR), 75 (FCC)				Selectable
<b>POWER REQUIREMENTS</b>						
AC Power input	AC Supply Voltage	VAC	115 - 125 - 230 - 250			
	AC Apparent Power Consumption	VA	135		220	
	Active Power Consumption	W	95		150	
	Power Factor		0,7			
	Overall Efficiency	%	Typical 31		Typical 33	
	Connector		IEC Standard			
<b>MECHANICAL DIMENSIONS</b>						
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		About 13		
Cooling		Forced, with internal fan				
Acoustic noise	dBa	< 56				
<b>AUDIO INPUTS</b>						
Left / Mono	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	10 k or 600			
	Input Level / Adjust	dBu	-13 to +14			1 dB step adjustable
Right	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	10 k or 600			
	Input Level	dBu	-13 to +14			1 dB step adjustable
MPX	Connector		BNC			
	Type		Unbalanced			
	Impedance	Ohm	10 k or 50			
	Input Level / Adjust	dBu	-13 to +14			1 dB step adjustable
SCA/RDS	Connector		3 x BNC			
	Type		Unbalanced			
	Impedance	Ohm	10 k			
	Subcarrier Level @ 0 dBu	dB	-17 to -40			Adjustable
AES/EBU (optional)	Connector		XLR F			
	Type		Balanced			
	Impedance	Ohm	110			
TOS/Link (optional)	Connector		TOS LINK			
	Type		Optical			
<b>OUTPUTS</b>						
RF Output	Connector		N type			
	Impedance	Ohm	50			
RF Monitor	Connector		BNC			
	Impedance	Ohm	50			
	Output Level	dBm	Approx. -30			
Pilot output	Connector		BNC			
	Load Impedance	Ohm	>4.7 k			
	Output Level	Vpp	1			Sinusoidal
<b>FUSES</b>						
On mains		1 External fuse F 6,3 T - 5x20 mm				
On services		X				
On PA Supply		1 External fuse F 6,3 A - 5x20 mm		1 External fuse F 10 A - 5x20 mm		
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.



		PTX100LCDDSP	PTX150LCDDSP	
Parameters	U.M.	Value		Notes
<b>GENERALS</b>				
Frequency range	MHz	87,5 ÷ 108		
Rated output power	W	100	150	Continuously adjustable from 10 to 100%
Modulation type		Direct carrier frequency		
Operational mode		Mono, Stereo, Multiplex		
Working temperature	°C	-5 to + 50		
Working humidity	%	85		Without condensing
Working altitude	m	Up to 3000		With adequate air evacuation system in site
Frequency programmability	kHz	From software, with 10		Steps
Frequency stability	ppm	±1		
Modulation capability	kHz	150 Stereo, 200 Mono/MPX		Meets or exceeds all FCC and CCIR rules
Pre-emphasis mode	µS	0, 25, 50, (CCIR), 75 (FCC)		Selectable
<b>POWER REQUIREMENTS</b>				
AC Power input	AC Supply Voltage	VAC	115 - 125 - 230 - 250	
	AC Apparent Power Consumption	VA	350	458
	Active Power Consumption	W	250	330
	Power Factor		0,71	0,72
	Overall Efficiency	%	Typical 40	Typical 45
Connector		IEC Standard		
<b>MECHANICAL DIMENSIONS</b>				
Physical dimensions	Front panel width	mm / inch	483 / 19	
	Front panel height	mm / inch	88 / 3 1/2 2HE	
	Overall depth	mm	400	
	Chassis depth	mm	389	
Weight	kg	About 15		
Cooling		Forced, with internal fan		
Acoustic noise	dBA	< 56		
<b>AUDIO INPUTS</b>				
Left / Mono	Connector		XLR F	
	Type		Balanced	
	Impedance	Ohm	10 k or 600	
	Input Level /Adjust	dBu	-13 to +14	
			1 dB step adjustable	
Right	Connector		XLR F	
	Type		Balanced	
	Impedance	Ohm	10 k or 600	
	Input Level	dBu	-13 to +14	
			1 dB step adjustable	
MPX	Connector		BNC	
	Type		Unbalanced	
	Impedance	Ohm	10 k or 50	
	Input Level / Adjust	dBu	-13 to +14	
			1 dB step adjustable	
SCA/RDS	Connector		3 x BNC	
	Type		Unbalanced	
	Impedance	Ohm	10 k	
	Subcarrier Level @ 0 dBu	dB	-17 to -40	
			Adjustable	
AES/EBU (optional)	Connector		XLR F	
	Type		Balanced	
	Impedance	Ohm	110	
TOS/Link (optional)	Connector		TOS-LINK	
	Type		Optical	
<b>OUTPUTS</b>				
RF Output	Connector		N type	
	Impedance	Ohm	50	
RF Monitor	Connector		BNC	
	Impedance	Ohm	50	
	Output Level	dBm	Approx. -30	
	Connector		BNC	
Pilot output	Load Impedance	Ohm	>4.7 k	
	Output Level	Vpp	1	
			Sinusoidal	
<b>FUSES</b>				
On mains		1 External fuse F 6,3 T - 5x20 mm		
On services		X		
On PA Supply		1 External fuse F 10 A - 5x20 mm		
On driver supply		X		

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**R.V.R. Elettronica S.r.l.**  
Via del Fonditore 2/2  
40138 Bologna - Italy  
Phone +39 0516010506  
sales@rvr.it

**www.rvr.it**