DRT
SERIES

DAB+ COMPACT TRANSMITTERS
MODELS

DRT100

ORDERING INFORMATION	
Model	Description
DRT100	TX DAB compact 2 units Rack Doherty 100W rms with integrated Rx GPS.

OPTION	
/TWINEDI	Dual EDI inputs.
/RXDVBS2	Integrated DVBS-DVBS2 receiver.
/RXGLONS	Integrated glonass receiver.
/TELEGRAM	Telegram interface.
/SURSATIN	Surge protector RF satellite input.
/SURLAIN	Surge protector for LAN input.
/GPSANTS	GPS antenna with support.

DRT100

100W Compact Transmitter.

FEATURES

DRT DIGITAL TRANSMITTER RVR: the ultimate evolution of the RVR Digital Radio Transmitter forDAB-DAB+/DMB.

GENERAL PERFORMANCE: in the best RVR tradition the DRTs are DIGITAL RADIO transmitters designed at the state of the art in every detail to guarantee a sound of unsorpassed quality.

INTEGRATED TEAMCAST CORE: of the latest generation guarantee perfect compliance with the latest regulations and a continuous upgrade.

PRIMARY APPLICATION: the DRTs available in a wide range of power (50-500 W in two-unit cabin) can be used both as standalone transmitters and as exciter exciter in high power systems.

GENERAL FEATURES: the performances are excellent for signal processing, modulation and of power amplification.

HIGH EFFICIENCY RF AMPLIFIERS: the use of Doherty broadband technology allows exceptional overall efficiency values with a significant reduction in operating costs.

INTEGRATED GPS RECEIVER: as standard, (GLONASS and other format are available as options) for a perfect synchronization in MFN and SFN networks.

MULTISTANDARD AND REDUNDANT INPUTS: combined with an effective control and changeover system guarantee optimal management of the available contribution signals.

DVBS-DVBS2 SAT RECEIVER: available as an option allows direct reception of TS via satellite without the need for an external receiver.

SNMP2 CONTROLINTERFACE: is integrated as standard along with with a simple and intuitive WEB mask that allows   simple and quickly verifications and settings.

TELEGRAM APPLICATION: an innovative use of Telegram™ allows a safe and controlled management of the transmitter by various operators.

EASE OF MAINTENANCE: the ergonomic construction of the transmitter and its modules guarantees extreme ease of access and simplicity of maintenance, significantly reducing the MTTR.

REGULATORY COMPLIANCE CERTIFICATIONS: full compliance with all the latest international standards for DAB-DAB + and DMB as well as for EMC and Safetythe DRTs are certified according to the regulations in force and can be used in perfect compliance with the parameters required by the regulatory bodies.

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CERTIFIED MANAGEMENT SYSTEM

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DRT100

Parameters		U.M.	Value	Notes
GENERALS				
Frequency range	according standard	MHz	VHF Bd.III from 175 to 240	
Rated output power	rms	W	100	
Standards	for DAB/DAB+		DAB-DAB+ : ETSI EN 300401v1.4.1-30277-2	
Standards	for DMB		DMB: EN 62516-1:2009	
MER Full Power		dB	> 34 (Typical 35)	
Shoulder Full power	without Channel Filter	dB	> 38	
Operational mode	DAB		Mode I, Mode II, Mode III, Mode IV	
Networ Mode	DAB-DAB+ / DMB		MFN / SFN	
Synchronisation	integrated GPS Receiver		GPS standard (GLONASS opzion) Nf for antenna	
Precorrection	linear, non linear		static, single, continuous, adaptative	
RF Output connector			Nf (DRT100)	
ENVIROMENTAL WORKING PARAMETERS				
Temperature/ Humidity		°C / %	-10 to + 45 / 95 relative, no condensing	
Working altitude		mt. absl	standard : 2500 / optional: 3000	
Cooling	forced air cooling		2 blowers	
MECHANICAL DIMENSIONS				
Phisical dimensions	Front panel width /height	mm / inch	482.60 / 19" EIA - 2 HE (88.90)	EIA rack
	Overall depth	mm / inch	550 / 21.65	
	Chassis depth	mm / inch	520 / 20.47	
	Weight	kg	About 11	
MAINS POWER REQUIREMENTS				
AC Power Consumption 25 C Temperature	AC Supply Voltage	VAC	single phase 230 V / 50Hz - 110 V / 60Hz ± 15%	
	Apparent / Active	VA / W-KW	355 / 345	
	Power Factor	%	0,98	
	Overall Efficiency (@°C)	%	30-35	
	On Mains / on PA	A	6.3 / 10	
INPUT / OUTPUT INTERFACES				
ETI / EDI INTERFACES / ETSI ETS 00 v .5.			2 x G703 (BNC 75 Ohm) ,NI (G703), NA5376 (G704), auto detection @ 2040 kbps ± 50 ppm / 1 x ETI OUT (BNC 75 Ohm)	
IP STREAM INTERFACE			2 x 10/100/1000 base T (RJ45)IP, RTP, UDP, IGMP (V2&V3) , V-LAN ID (1to 4094), IEEE 802.1q EDI De-Encapsulation (TS 102 693)	
RX SAT RECEIVER DVBS/S2	Integrated (option)		1 x INPUT DVBS2 (950-2150 MHz) (F75 Ohm), -25/-62 DbM, gse De-Encapsulation (TS 102606)	
CONTROL/ MONITORING			1 x 10/100/1000 Ethernet (RJ45), WEB GUI SNMP) 3.5 ¨ Colour Touch Screen and buttons	
COMPLIANCE CONFORMIT			RED 2014/53/ EU, Safety EN 60215 , EMC EN 301-489-1/53, ETSI EN 302 077	
AVAILABLE OPTIONS				
			/TWINEDI /RXDVBS2 /RXGLONS /TELEGRAM /SURSATIN /SURLAIN /GPSANTS	

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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