

DVB-T/T2 Exciter TV-05D

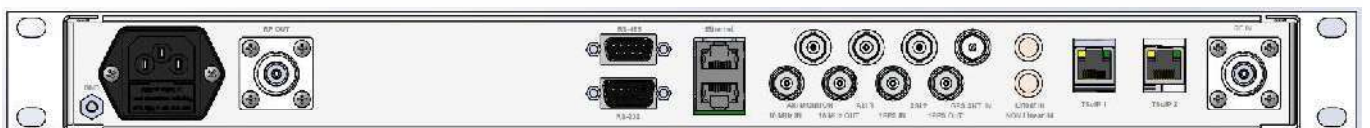
Vigintos DVB-T/T2 exciter is designed to provide high quality professional DVB-T/T2 broadcasting in compliance with standards: EN 302 755, TS 102 831, NS 102 773 (T2-MI).

Mainly it is used as an exciter of high power DVB-T/T2 transmitters.



Specifications

Operating frequency range	UHF 470 - 862 MHz or VHF 170 - 230 MHz, setting in 1 Hz steps
Bandwidth	6,7,8 MHz
Output power	100 mWrms ± 0.5 dB
Output connector	N female, 50 ohm
TS ASI inputs	2 x BNC female 75 ohm
Redundancy	user selectable switching between primary and secondary ASI source
TSolP inputs	2 x RJ45 1Gb (TSolP option)
ASI monitor	BNC female 75 ohm
GNSS antenna input	1 x GNSS antenna, TNC 50 ohm, user selectable DC bias integrated multi standard receiver (GNSS option)
External SFN timing:	
1pps input	BNC female 50 ohm, 0-5V
1pps output	BNC female, 0-1.5V @ 50 ohm load
10MHz input	BNC female, 100mVpp – 3Vpp, user selectable impedance
10MHz output	BNC female, 800mVpp @ 50 ohm load
Control and settings	on front panel and remotely
Control Interface	1 x RJ45 in front panel + 2 x RJ45 in rear panel 1 x RS-232 1 x RS-485 for external amplifiers
Remote control	RS232, Ethernet (WEB and SNMP)
Network mode	MFN, SFN
Modulation	QPSK, 16-QAM, 64-QAM, 256-QAM
IFFT	1K, 2K, 8K, 16K, 32K
Guard interval	1/128, 1/32, 1/16, 19/128, 1/8, 19/256, 1/4
Code Rate	1/2, 3/5, 2/3, 3/4, 4/5, 5/6
Pilot pattern	PP1, PP2, PP3, PP4, PP5, PP6, PP7, PP8
MER	≥ 40 dB
Operating condition:	
Temperature range	+5 ... +45 °C
Humidity	80% non condensing
AC power supply	~220 V +10/-15% ; 50 ± 2 Hz
Power consumption	50 VA max
Cooling	forced air
Dimension	1U 19"
Weight	5 kg



Options

Digital adaptive pre-corrector (DAP option) it is a software method of pre-distorting a signal prior to feeding it into high power amplifier.

The precorrector has two feedback inputs:

- linearization of non-linear transfer characteristics
- linearization of linear transfer characteristics

Main features:

MER improvement	+15dB
Shoulder improvement	+16dB
Operating modes	bypass, static, adaptive
Pre-corrector input connectors	SMA 50 ohm
Level	-10dBm to +10dBm
Return loss	> 20dB

Integrated Multi Standard Global Navigation Satellite System (GNSS option) GPS and GLONASS support

Input connector	TNC female
Frequency	1.575 GHz GPS / 1.602-1.603 GHz GLONASS
Antenna net gain range	0 to +32dB
Antenna	passive or active (not included)
Antenna DC supply	OFF, 3Vdc or 5Vdc \pm 0.5V
Antenna DC current	max 50mA

Mode A supported “legacy” TS input for NFM single PLP only (mode A option).

User friendly intuitive **WEB GUI** control for use with standard Web Browser.

