

NT 50 D

Phase Locked Loop Programmable
50 Watts DIGITAL TV UHF / VHF Transmitter



- Agile programming of channel and levels from front panel
- AGC and ALC controls
- Excellent noise figure
- Interchangeable module for fast configuration in transmitter or transposer version
- Linearity pre-correction
- Agile integrated up-converter.
- ASI and LVDS inputs.
- Automatic network delay compensation (SFN).
- MIP decoder for automatic configuration.
- Excellent eye aperture.
- Modular construction.
- Convectional or forced cooling.
- Complies with A53 (ATSC) specifications.



TECHNICAL SPECIFICATIONS

GENERAL:

Output Connector	N Female
Output impedance	50 Ohm
Digital output Power	50W (rms without output filter)
Frequency Stability	1 ppm or locked to external reference
Harmonics (w-output filter)	-60 dB or better
Spurious Emissions (w-output filter)	-60 dB or better
External Control and monitoring	Logic and analog signal outputs, enable inputs, RS 485
Cooling	Forced Air
Operating Temperature	-10° C to + 45° C
Maximum relative Humidity	90%, non condensing
Maximum operating Altitude	8200ft. (2500m)
Mains Power supply	90 to 264V AC, 48V DC
Cabinet	Rack 19"-3U
Dimensions	19" x 5.1" x 19" (482x130x480mm)
Weight	50 Lbs (22 Kg.)

ATSC MODULATOR:

Serial Data Input	4x BNC 75 Ohm, ASI, SMPTE-310M
Parallel Data Input	LVDS, Sub-D 25,100 Ohm
Input Data Rate	Up to 19.39 Mbits/s
Channel Bandwidth	6 MHz
Modulation	8VSB (16VSB optional)
Trellis coding	2/3
Symbol rate	10.762 Msymbol/Sec
Bandwidth efficiency	3 Bits/symbol
Digital/Analog converter	14 bits
Frequency reference input	10 MHz, BNC 50 Ohm
Time reference input	1 PPS, BNC 50 Ohm
Reed-Solomon encoder	207/187/10
SFN function	Included
Digital pre-correction	Included
Test functions	PRBS, CW
PCR restamping	Included for ASI input
Del.Null packet mode	Included for ASI input