

## NT 5 D

Phase Locked Loop Programmable  
5 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:

<b>Output Connector</b>	N Female
<b>Output impedance</b>	50 Ohm
<b>Digital output Power</b>	5W (rms without output filter)
<b>Frequency Stability</b>	1 ppm or locked to external reference
<b>Harmonics (w-output filter)</b>	-60 dB or better
<b>Spurious Emissions (w-output filter)</b>	-60 dB or better
<b>External Control and monitoring</b>	Logic and analog signal outputs, enable inputs, RS 485
<b>Cooling</b>	Forced Air
<b>Operating Temperature</b>	-10° C to + 45° C
<b>Maximum relative Humidity</b>	90%, non condensing
<b>Maximum operating Altitude</b>	8200ft. (2500m)
<b>Mains Power supply</b>	90 to 264V AC, 48V DC
<b>Cabinet</b>	Rack 19"-3U
<b>Dimensions</b>	19" x 5.1" x 19" (482x130x480mm)
<b>Weight</b>	50 Lbs (22 Kg.)

### ATSC MODULATOR:

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