



DVB-T/H Transmitter

KEY FEATURES:

- Simple and intuitive front panel controls
- LCD function display
- Low profile 19" rack mountable (2RU) housing
- Front panel RS232 connector for remote control
- Low power consumption
- Optional DVB-S tuner receiver input
- 5 watt adjustable output
- Switchable fixed (terrestrial) and mobile/handheld (L band) outputs
- Four ASI inputs
- Modular internal components for ease of servicing and repair
- Automatic input switching in case of input failures
- Over temperature protection
- Short circuit protection (power supply)
- Automatic protection against over power and reflected power extremes
- 2 Year warranty

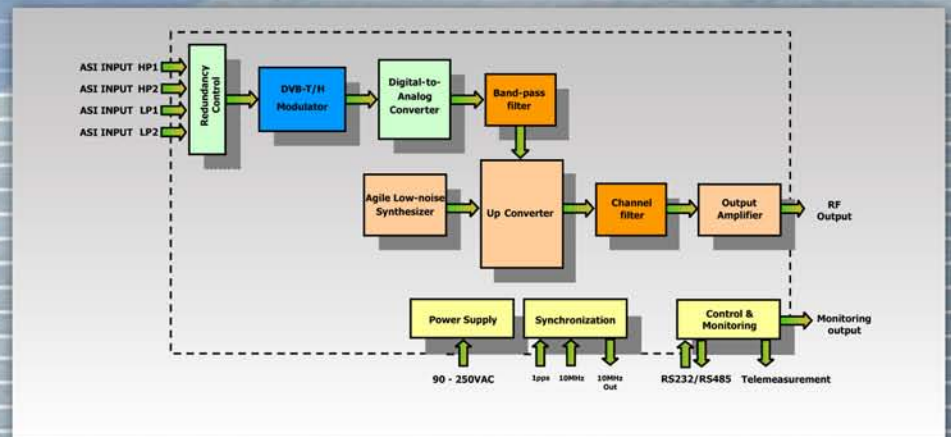
The DVB-T/H television transmitter is Elettronika Group's newest television transmitter. Purpose built to deliver optimal performance in the emerging digital television broadcasting market worldwide.

With both fixed (terrestrial) and mobile (handheld) outputs modes, this digital transmitter is the fundamental component for Digital Video Broadcasting. This unit will provide the digital upgrade solution for conversion from Analogue to Digital transmission.

This unit is becoming the preferred DVB – T/H transmitter for new digital television installations. It is suitable for low, medium and high power applications. Options available include an L-Band DVB-S (satellite) receiver often required in isolated and rural re-transmission situations.

The Elettronika – DVB-T/H television transmitter is ideal as an exciter for high power digital broadcasting as well as a stand alone unit for small rural retransmission applications.

A Remote Control Unit (RCU) can be used in conjunction with the VEGA to provide full control and peace of mind. Any / all messages can be automatically sent to our 24 monitoring service through PSTN (phone-line), Ethernet or GSM (mobile). Our GSM RCU can even send an SMS to notify you of your broadcast site/s status.



info@n-com.com.au
www.n-com.com.au



elettronika@elettronika.it
www.elettronika.it



DVB-T/H TRANSMITTER

Technical Specifications

SIGNAL PROCESSING SECTION

Reference Standard	ETSI EN 300 744 v1.5.1
DVB-T Modes	2k, 4k, 8k
Constellations	QPSK, 16QAM, 64QAM
Code Rates	1/2, 2/3, 3/4, 5/6, 7/8
Guard Intervals	1/4, 1/8, 1/16, 1/32
Hierarchical Modes	$\alpha=1$, $\alpha=2$ and $\alpha=4$ over 16QAM and 64QAM
Inner Interleaver	Native, In-depth
Network Support	MFN and SFN
TPS signalling	DVB-T or DVB-H
Bandwidths	8MHz, 7MHz, 6MHz and 5MHz
Digital Pre-Correction	Linear and Non-Linear
Automatic NIT Update	User enabled
Automatic PCR Restamping	User enabled
Output OFDM Peak Factor Correction	Adjustable with Digital Pre-Corrector
Test Modes	PRBS Generator, Null Symbol Insertion, Central Carriers removal

INPUT SECTION

TS input	4 DVB-ASI inputs: 2HP + 2LP fully redundant
Input Option	L-band DVB-S receiver replaces ASI input
Input TS Format	SPTS/MPTS, Burst Mode - Continuous Mode
MPEG-2 Packet Length	188/204 bytes
Frequency Reference	10MHz
Frequency Reference Interface	BNC, 50 Ω , -15dBm to +15dBm
Time Reference	1pps
Time Reference Interface	BNC, 5k Ω , TTL 0-5V

OUTPUT SECTION

RF Output Frequency	UHF band, VHF band
RF Output Option	L-band for dedicated DVB-H networks
Output Level	5W RMS
Output Interface	N type connector, 50 Ω
Spectrum Polarity	Non-inverted and Inverted
Harmonics and Spurious	<60dB relative to the total output power
MER	>42dB

GENERAL

Physical	Case 19" - 2U - 12kg
Remote Control Port	RS232/RS485
Remote Control Options	PSTN, GSM, Ethernet, SNMP (with external RCU unit)
Front Panel User Interface	LCD Display + Rotating knob
Power Supply Voltage	90-260V _{AC}
Power Consumption	150VA max
Operating Temperature	0 - 50°C

Specifications and characteristics are subject to change without notice



P.O Box 207 Geebung
Brisbane Australia 4034
Ph: +61 7 33504530 Fax: +61 7 3315 4683
info@n-com.com.au www.n-com.com.au



SS 96 km 113 Z.I.
70027 PALO DEL COLLE (BA) ITALY
Tel. +39.080.626755 (PBX) - Fax +39.080.629262
elettronika@elettronika.it www.elettronika.it