



DVBridge Digital Transposer and Gapfiller

MAIN CHARACTERISTICS:

- Compact and cost competitive
- Top-quality air cooling system
- Very high Isofrequency performance
- Adaptive Echo Cancellation Algorithm
- UHF and VHF versions
- Multi-platform remote control
- User-friendly Graphical User Interface
- Finest Output Signal thanks to accurate Digital Signal Processing
- Non-regenerative Operation
- Regenerative Operation on request

DVBridge is the latest and finest solution to expand your DVB-T/H, DAB/T-DMB, DTMB and CMMB networks coverage allowing your programs to reach the typical shadow zones created by natural or architectural obstacles. It is an optimal solution in terms of performance-to-price ratio and its compactness allows quick and cost-effective installations.

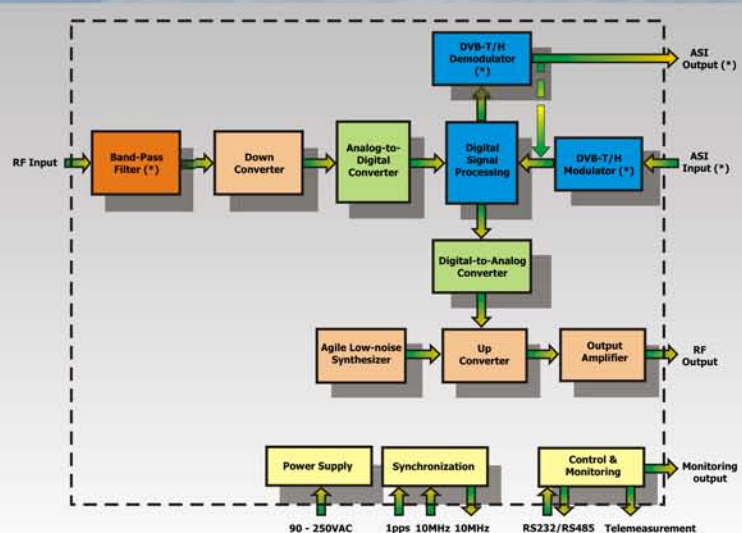
DVBridge accepts a DVB-T/H, DAB/T-DMB, DTMB or CMMB signal in the UHF or VHF band (depending on the standards and models) and produces an output signal in any channel in the same band, depending on your network needs.

The standard product is available in a **non-regenerative version** which can re-transmit the signal on the same channel or on a different channel without demodulation. On request it is also available in a **regenerative version** which provides a complete recovery of the Transport Stream by demodulating and re-modulating the incoming signal.

When **DVBridge** is used as a gap-

filler re-transmitting on the same channel, a revolutionary time-domain adaptive **Echo Cancellation** process allows to remove all the problems that may arise from the unavoidable coupling between the transmitting and receiving antennas of the equipment. In a single 19" 2U case we have concentrated the powerful digital signal processing section, the down-conversion module, the agile up-conversion module, the output filter, the power amplifier stage, the micro-processor-based control section and a very user-friendly LCD interface.

The innovative design of **DVBridge** implements the optimal compromise between physical size and long-term reliability. A complete remote control of the unit is possible by means of different cabled or wireless telecommunications networks. A highly linear 5W RMS LDMOS amplifier stage, together with a highly innovative baseband processing section, produce extremely high RF performances at a very competitive price.



(*) = REGENERATIVE MODE ONLY - ON REQUEST





DVBridge

Technical characteristics

SIGNAL PROCESSING SECTION

Reference Standard	DVB-T/H, DAB/T-DMB, DTMB, CMMB
Bandwidths	UHF 8MHz - DVB-T/H, DTMB, CMMB VHF 1.5MHz - DAB/T-DMB UHF and VHF 6MHz ATSC (coming soon)
Digital Pre-Correction	Linear and Non-Linear
Operating Mode	Non-regenerative Regenerative (on request)
Multi-path processing	Adaptive Echo Cancellation
Output processing	Advanced Digital Shaping Filter
Test Mode	Output reference signal for level calibration

INPUT SECTION

RF input	UHF or VHF (UHF-only in regenerative mode)
Dynamic Range	-75dBm to -10dBm
Input Option	ASI input with Regenerative Operating Mode
Input TS Mode	Burst Mode - Continuous Mode
MPEG-2 Packet Length	188 bytes
Frequency Reference	10MHz
Frequency Reference Interface	BNC, 50 Ω , -15dBm to +15dBm
Time Reference	1pps (Regenerative Mode Only)
Time Reference Interface	BNC, 5k Ω , TTL 0-5V (Regenerative Mode only)

OUTPUT SECTION

UHF Output Frequency	470MHz 870MHz step 1Hz
VHF Output Frequency	170MHz 230MHz step 1Hz
ASI Output (Regenerative Mode only)	188 bytes, Continuous Mode - BNC 75 Ω
Output Level	5W RMS
Output Interface	N type connector, 50 Ω
Spectrum Polarity	Non-inverted and Inverted
Harmonics and Spurious	<50dB relative to the total output power
MER	34dB typical at -55dBm input level 36dB typical in Regenerative Mode

GENERAL

Physical	Case 19" - 2U - 12kg
Remote Control Port	RS232/RS485
Remote Control Options	PSTN, GSM, Ethernet, SNMP (with external unit)
Front Panel User Interface	LCD Display + Rotating knob
Power Supply Voltage	90-250V _{AC}
Power Consumption	150VA max
Operating Temperature	0 - 50°C

Specifications and characteristics are subject to change without notice



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