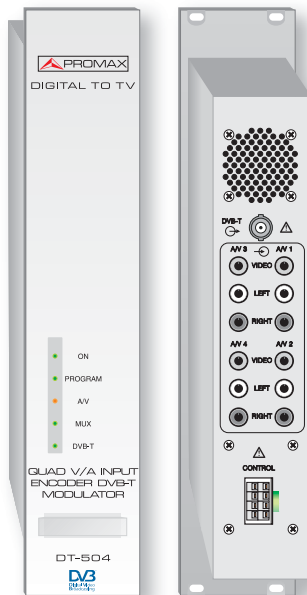


Quadruple Video/Audio encoder, DVB-T output



The **DT-504** module offers the possibility to build a broadcast signal in DVB-T format from four composite video and audio inputs. It is made of four independent video and audio MPEG-2 encoders and a modulator. Audio inputs can be stereo or mono.

Frequently some TV services are only available as analogue baseband video.

That is the case of encrypted programmes which can only be received with a dedicated STB and smart card, signals from CCTV cameras, door entry systems, etc.

Programmes originally in analogue format are inserted to the TV distribution network with the benefits of DVB-T technology.

Specifications	DT-504
A/V inputs Type Connector Video Format Level Impedance Audio Mode Level Impedance Bandwidth	4 independent A/V inputs 3 RCA-Female connectors for each input 1 connector (yellow) Composite video 1 connector (white) Audio L 1 connector (red) Audio R PAL, NTSC 1 Vpp 75 Ω Selectable Stereo / Mono / Dual / Joint Stereo 0.5 Vpp / 1.0 Vpp max. 10 kΩ 20 Hz to 20 kHz
MPEG-2 Encoder Video/Audio encoding Format Video Bitrate Audio bitrate Editable parameters Available measurements	MPEG-2 According to DVB-T modulation parameters From 32 to 384 kbits/s selectable Service Name, Service ID, Video PID, Audio PID, PMT PID Total bitrate
Multiplexor Editable parameters	Network name, NID, NID Original, TS ID
DVB-T modulator FFT Mode Channel BW Guard Interval Code Rate Constellation Spectral Inv.	2k, 8k 7 MHz, 8 MHz 1/4, 1/8, 1/16, 1/32 1/2, 2/3, 3/4, 5/6, 7/8 QPSK, 16-QAM, 64-QAM ON, OFF

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RF Output (DVB-T) Type Connector Frequency margin Power level (average) Frequency stability MER Phase noise SSB	1 multiplex DVB-T 75 Ω F-Type, Female Adjustable frequency between 474 and 875 MHz, 1 Hz steps (see Options for VHF band output) 88 dBμV approx., without attenuation Variable attenuation from 0 to 33dB approx., 1 dB steps 10 ppm > 37 dB -87 dBc/Hz @ 2 kHz.
Configuration	Through the DT-800 Control Module in local (keypad) or remote mode (PC). (See DT-800)
Power supply Connector Voltage and highest consumption	Via the DT-800 Control and Power module ST B08P-XL-HDS (Connecting Cable supplied with the DT-800 module) +12 V, <0,55 A ; +5 V, <1,4 A
Operating environmental conditions Altitude Temperature range Max. Relative humidity	Up to 2000 m From 5 °C to 40 °C 80% (up to 31 °C), decreasing lineally up to 50% at 40°C
Mechanical features Dimensions Weight Mounting	A. 50 x Al. 262 x Pr. 230 mm 1,5 kg Using DT-900 rack/wall mounting frame
Options DT-504-V Output frequency	VHF option From 170 to 650 MHz
Minimal configuration needed 1 x DT-800 1 x DT-900	Power and Control Module Sub-rack framework to install in a rack or on a wall

Functional diagram

