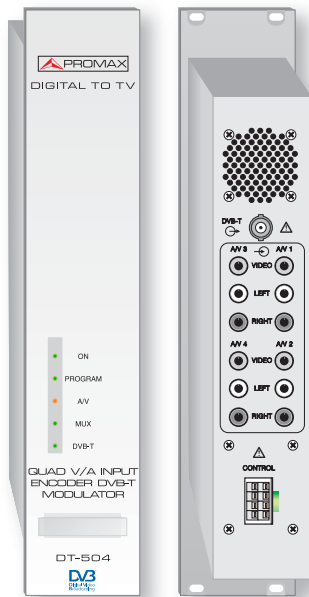


## Quadruple Video/Audio encoder, DVB-T and TS-ASI output



The **DT-504** module offers the possibility to build a broadcast signal in DVB-T and TS-ASI (\*) 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.

(\*) *Optional TS-ASI output (option DT-504-S)*

Specifications	DT-504
<b>A/V inputs</b> 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
<b>MPEG-2 Encoder</b> Video/Audio encoding Format Video Bitrate Audio bitrate Editable parameters Available measurements	MPEG-2 According to DVB-T modulation parameters From 32 to 384 kbps selectable Service Name, Service ID, Video PID, Audio PID, PMT PID Total bitrate
<b>Multiplexor</b> Editable parameters	Network name, NID, NID Original, TS ID
<b>DVB-T modulator</b> FFT Mode Channel BW Guard Interval Code Rate Constellation Spectral Inversion	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

## Quadruple Video/Audio encoder, DVB-T and TS-ASI output

<b>RF Output (DVB-T)</b> 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 step (see Options for VHF band output) 88 dBμV approx., without attenuation Variable attenuation from 0 to 33dB approx., 1 dB step 10 ppm > 37 dB -87 dBc/Hz @ 2 kHz.
<b>TS-ASI Output</b>	Optional
<b>Configuration</b>	Through the <b>DT-800</b> Control Module in local (keypad) or remote mode (PC). (See <b>DT-800</b> )
<b>Power supply</b> Connector Voltage and highest consumption	Via the <b>DT-800</b> Control and Power module ST B08P-XL-HDS (Connecting Cable supplied with the DT-800 module) +12V 0,99 A, +5 V 0,67 A
<b>Operating environmental conditions</b> 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
<b>Mechanical features</b> Dimensions Weight Mounting	50 mm (W.) x 262 mm (H.) x 230 mm (D.) 1.17 kg Using <b>DT-900</b> rack/wall mounting frame
<b>Options</b> <b>DT-504-V</b> Output frequency	VHF option From 170 to 650 MHz
<b>Minimal configuration needed</b> 1x <b>DT-800</b> 1x Mounting structure	Power and Control Module Rack and wall mounting structure ( <b>DT-900</b> ) or Rack mounting structure ( <b>DT-900B</b> )

### Functional scheme

