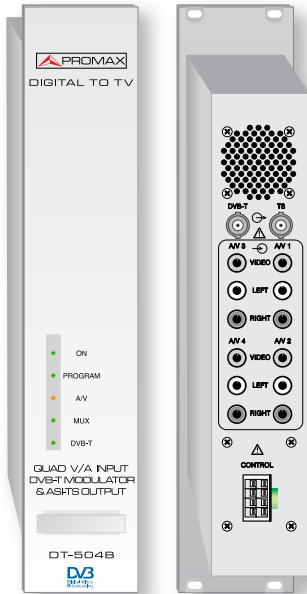




# DT-504B

## Quadruple video / audio encoder with multiplexer and TS-ASI output



The **DT-504B** is a module able to generate a single transport stream in **COFDM** format from several audio and video (A/V) analogue signals.

It has 4 Audio / Video analogue inputs. Each **A/V** input has three **RCA** connectors, one for video signal (**VIDEO**) and two more for audio (right and left audio).

Each **A/V** input is coded by means of the **MPEG-2** compression system. Then the resulting signals are processed by a multiplexer that brings together all in one **TS**. This TS is serialized into **DVB-ASI**

format and it is available in the ASI connector. Simultaneously, the TS is modulated in an DVB-T output signal.

Subsequently, the **DVB-T** output signal can be inserted into a television network with the advantages of robustness and high quality that digital technologies offers.

Specifications	DT-504B
<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 or 1.0 Vpp (selectable). 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 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.

## Quadruple video / audio encoder with multiplexer and TS-ASI output

<b>TS Output</b> Type Connector Packets	1 ASI-TS output. BNC female, 75 Ω. TS Packets of 188 bytes length.
<b>RF Output (DVB-T)</b> Type Connector Frequency margin	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).
<b>Power level (average)</b>	90 dBμV approx., without attenuation. Variable attenuation from 0 to 33dB approx., 1 dB step.
<b>Frequency stability</b>	10 ppm.
<b>MER</b> Phase noise SSB	> 37 dB. -87 dBc/Hz @ 2 kHz.
<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	A través de la unidad de control y alimentación <b>DT-800</b> . JST B08P-XL-HDS (cable de conexión suministrado con <b>DT-800</b> ). +12 V, <0.55 A ; +5 V, <1.4 A.
<b>Mechanical features</b> Dimensions Weight Mounting	A. 50 x Al. 262 x Pr. 230 mm. 1.170 kg. Using <b>DT-900</b> rack/wall mounting frame.
<b>Included accessories</b> 1 x 0 CC024 1 x 0 CC027 4 x 0 CO6718 1 x 0 MI1714 1 x 0 MI1723 1 x 0 DG0061	BNC/BNC Cable 25 cm. BNC/BNC Cable 50 cm. Connector Adapt Aero BNC-H/RCA-M. Instruction for assembly and connection. Menu Tree. Quick configuration guide.
<b>Options</b> DT-504B-V Frequency	Option VHF. From 170 to 650 MHz.
<b>Minimal configuration needed</b> 1 x <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

