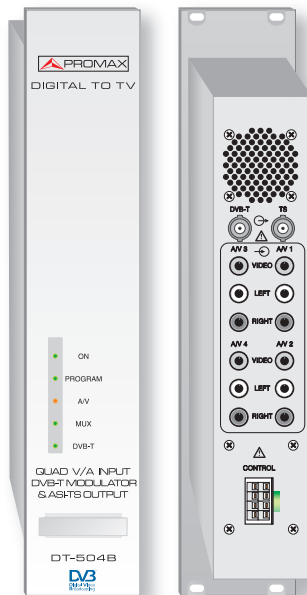


Quadruple video / audio encoder with multiplexer and TS-ASI output



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
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 or 1.0 Vpp (selectable). 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 kbps 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.

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

TS Output Type Connector Packets	1 ASI-TS output. BNC female, 75 Ω. TS Packets of 188 bytes length.
RF Output (DVB-T) 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).
Power level (average)	90 dBμV approx., without attenuation. Variable attenuation from 0 to 33dB approx., 1 dB step.
Frequency stability	10 ppm.
MER Phase noise SSB	> 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	A través de la unidad de control y alimentación DT-800 . JST B08P-XL-HDS (cable de conexión suministrado con DT-800). +12 V, <0.55 A ; +5 V, <1.4 A.
Mechanical features Dimensions Weight Mounting	A. 50 x Al. 262 x Pr. 230 mm. 1.170 kg. Using DT-900 rack/wall mounting frame.
Included accessories 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.
Options DT-504B-V Frecuencia de salida	Opción VHF. From 170 to 650 MHz.
Minimal configuration needed 1 x DT-800 1x Mounting structure	Power and Control Module. Rack and wall mounting structure (DT-900) or Rack mounting structure (DT-900B)

Functional scheme

