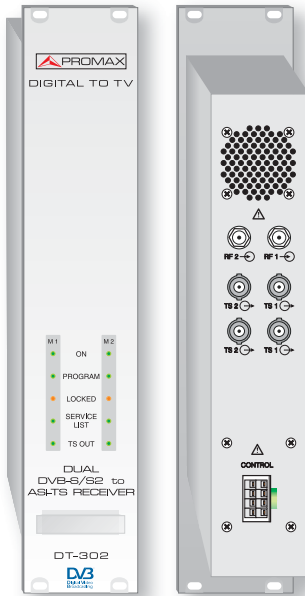


Single/Dual DVB-S/S2 receiver with CAM and ASI-TS output



The **DT-301** (single) and **DT-302** (dual) modules are digital satellite receivers compatible with DVB-S and DVB-S2 standards. They can receive a satellite transponder and deliver the transport stream in the form of TS-ASI.

Each satellite receiver has two identical TS-ASI outputs. This is because satellite transponders can typically allocate a higher number of services than DVB-T

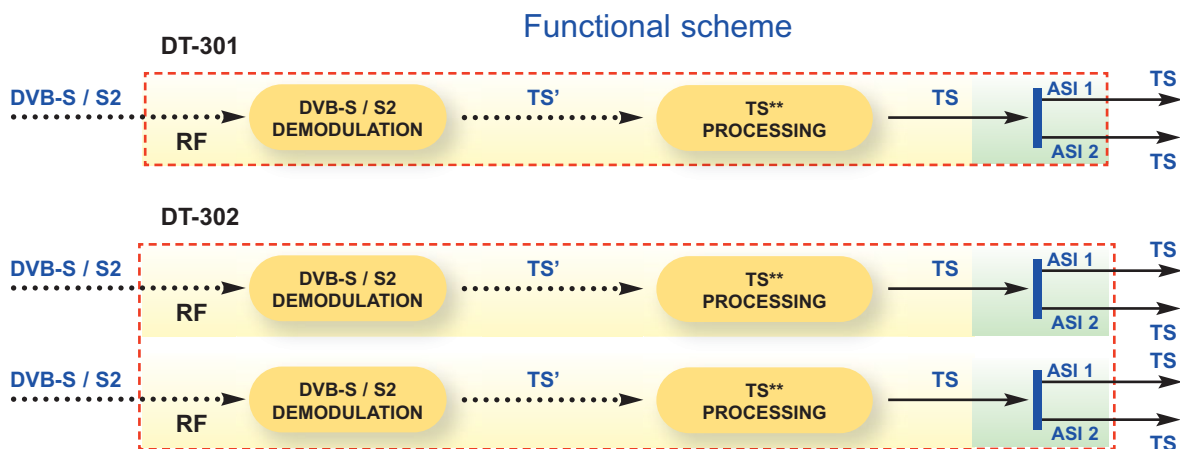
multiplexes and therefore more than one COFDM modulator may be required if we want to deliver all services of the transponder to the TV distribution system

Each satellite receiver allows inserting a Conditional Access Module (CAM). Several types of CAM can be used for de-encrypting one or more of the available encrypted programmes and being distributed (see **DT 902**).

Specifications	DT-301/DT-302
DVB-S/S2 FIDVB-S/S2 FI input Type Connector Range Frequency Input Level Information	1 (DT-301) or 2 (DT-302) independent DVB-S/S2 FI inputs 75 Ω Type-F, Female. From 950 MHz to 2150 MHz. 40 – 110 dBμV. MER of the signal
TS Output Type: Connector: Packets:	1 (DT-301) or 2 (DT-302) independent DVB-ASI double output/s*. BNC female, 75 Ω TS Packets of 204 bytes length.
LNB Power supply Voltage Current 22 kHz Signal Voltage: Frequency:	OFF, 13 V and 18 V (± 1 V). <400 mA. ON, OFF. 0,65 V ±0,35 V. 22 KHz ± 4 KHz.
DVB-S Receiver Parameters Symbol Rate Roll off Code Rate Spectral Inversion	2 – 45 Mbauds. 0,35. Automatic (1/2, 2/3, 3/4, 5/6, 7/8). Automatic (ON, OFF).
DVB-S2 Receiver Parameters Constellation SymbolRate (QPSK) SymbolRate (8PSK) Roll-off Factor Code Rate (QPSK) Code Rate (8PSK) Spectral Inversion	QPSK, 8PSK (Auto) 2 – 33 Mbauds. 2 – 30 Mbauds. Automatic (0,20 , 0,25 and 0,35). Automatic (1/4, 1/3, 2/5, 1/2, 3/5, 2/3, 3/4, 4/5, 5/6, 8/9, 9/10). Automatic (3/5, 2/3, 3/4, 5/6, 8/9, 9/10). Automatic (ON, OFF).
Decrypting multiples services Interface Maximum number of decrypted services	1 Common Interface (DT-301) or 2 independent Common Interfaces (DT-302) Depending on the CAM module you use (see DT-902)

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Configuration	Through the DT-800 Control Module in local or remote mode (PC). See DT-800 specifications.
Transport Stream Process Basic Functions Advanced Functions Only available when connecting to DT-1XX modulator	Simultaneous decryption of multiples services (using a proper CAM module. (See DT-902)** Selection of decrypted services by name. Selection of Services by name or streams filtering by PID. Automatic Regeneration of PAT and SDT tables. Distribution of TS services among various output multiplexes*. Adaptation of the NIT table: NID (Network Identifier) editable Management of LCN (Logic Channel Number) for each module and each service
Power supply Connector Voltage and highest consumption	Through the DT-800 Control Module in local (keypad) or remote mode (PC). JST B08P-XL-HDS (connecting cable supplied with DT-800) +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	W. 50 x H. 262 x D.230 mm. 1.28 kg.
Included accessories 4 x 0 TO4377 4 x 0 AR1942 1 x 0 CC024 1 x 0 CC027 1 x 0 MI1622	Screw M2.5x12. Flat Washer M2.5. BNC/BNC Cable 25 cm. BNC/BNC Cable 50 cm. Users Manual.
Recommended accessories DT-902	CAM multiservice module for conditional access (maximum of 12 services). (Viaccess, Mediaguard, Irdeto, Conax, Betacrypt, Cryptoworks)
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



* Double TS outputs deliver 2 copies of the same TS. Combining them with a DT-1xx modulator, allows distributing easily various services from a TS in 2 different output multiplexes, but only using one receiver.

** Available functions to process TS depend on the chosen combination of "Digital To TV" modules. For more details, see modules specifications.