

CHASSIS

Internal data processing	Up to 12 Gbps
Satellite DVB-S/DVB-S2 FTA receivers	Up to 24
Satellite DVB-S/DVB-S2 receivers with CI	Up to 6
MPEG-2/MPEG-4 (H.264) streams encoding/decoding	Up to 12
QAM carriers (A annex)	Up to 36
ASI Inputs/Outputs	Up to 30/24
CI slots (descrambling)	Up to 12
Number of streams	Up to 512
Number of services	Up to 1024
DVB-CA scrambling	module on the main board
Power supply redundancy	standard

CONTROL AND CONFIGURATION

Display and front panel buttons	✓
WEB server embedded	✓
Server - client type application TMS (TANTRAX Management System)	✓

GBE (IP) INTERFACE

Number of integrated GbE ports	4 (2 main / 2 backup)
Max. port load	Up to 960 Mbps
Supported streams	SPTS/MPTS
Input streams per port	256
Output streams per port	256
Packet length	188/204 Byte
Supported protocols	UDP, RTP
Transmission	Unicast/Multicast
Bitrate type	VBR/CBR

OTHERS

Housing	1RU, 19"
Dimensions (W x H x L)	483 x 44 x 502 mm
Weight	6 kg
Power supply voltage	100...240 V AC
Power consumption	80 W
Operating temperature	5...40 °C
Humidity	80 %



Chassis:

Is equipped with 2+2 GbE Input/Output ports

Works as an IP remultiplexer

PSI/SI Server

Provides 6 slots for functional modules

Possesses scrambler modules, installed on mainboard

Is fitted out with 2 redundant power suppliers

Contains a front panel with LCD display

Is furnished with IP FEC in/out

Combines Input/Output backup:
IP level backup,
chasis backup,
stream backup,
service backup.

Allows to generate various source addresses for the IP transmission.

TANTRAX is equipped with 4 GbE Input/Output ports integrated on the front panel, 2 main ports and 2 spare ports. It can operate as an IP remultiplexer and PSI/SI Server without a card. IP interfaces are always available on the platform in any configuration of the card. This powerful feature guarantees a lot of flexibility i.e. it allows or connecting many chassis of different configurations into one headend system.

Possible redundancy schemes offered by TANTRAX: per chassis, per card, per card interface, per program, per IP link and per module.

TANTRAX is a modern multimedia platform whose great capabilities and functionalities will satisfy the requirements of Telco and HFC operators as well as content providers.

The standard 1 RU enclosure and the use of functional modules make TANTRAX a universal solution. One case provides 6 slots in which any combination of modules may be installed.

The platform supports the following type of Input: IP, ASI, QAM, SAT, COFDM, SDI and the following types of Output: IP, QAM, ASI, COFDM, SDI/CVBS. Available cards facilitate descrambling, scrambling, encoding, decoding and transcoding. TANTRAX allows for building multiple system scenarios.

TANTRAX advanced capabilities and the configuration of redundancy of the service cards, services, chassis and headend ensures high stability and security.

Modular and diverse cards provide all the needed functionalities. It is possible to introduce the upgrade of the cards from one chassis into the whole system of the connected chassis. This addresses future needs of the operator services and facilitates the development of the operator services.

TANTRAX chassis is equipped with the standard built-in GbE ports on the front panel. The chassis supports UDP, RTP protocols, SPTS/MPTS streams and unicast/multicast transmission. No additional IP card is needed as TANTRAX is IP oriented and may be used in a modern headend architecture.