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Streamer with remultiplexing DVBS/S2 - IP, with CI

Streamer generating an IP encapsulated output from the multiplexing of the services available in up to 3 different TV SAT transponders.

These may be extracted from 2 different satellites (2 independent SAT inputs), or from a single satellite, using the headend's input loop.

The encrypted satellite channels are transformed into free IP services through the CI interface and the appropriate CAM module. Depending on the CAM type used (standard/professional), one or several services may be opened for free visualization.

The system will encompass a power supply and some streamer modules depending on the number of services to be distributed.

Ref.565801

| | |
|---------------|---------------|
| Art.Nr | U3QIP-S2-CI |
| EAN13 | 8424450209073 |

Highlights

- 32 IP streams SPTS
- DiSEqC 1.0 for multiswitches control
- Service decryption by insertion of a PCMCIA module
- Access to the headend configuration through a self-created WiFi network (using the kit with ref.216802)
- Internal switch for IP out Daisy chain of several modules
- External to the headend services signaling, such as those coming from a HE-21 headend
- Equipment monitoring using basic SNMP protocol, which allows behavior values to be indicated through the network (network information, unit turn-on times, etc ...)
- Embedded user web interface for module configuration:
 - Configuration of the entire headend selecting one of the module as a master
 - Automatic detection of the modules that are connected to the master
 - Cloning function to replicate configurations between modules and headends
 - UDP or RTP output protocol selection, for greater compatibility with IPTV systems

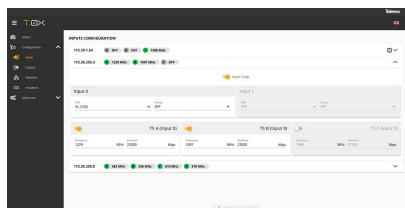
- Headend control indicators: module temperature, CAM status ...

Main features

- Selection of services among the 3 input transponders to distribute in streaming
- Includes EPG information (Electronic Program Guide) in the headend output stream
- Provides flow information of each service to estimate the global output flow of the module
- Device monitoring and signal status LEDs

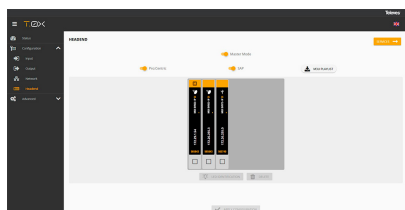
Functionalities

Remultiplexing of services



The unit has three demodulators (TS A, TS B, TS C) that, depending on how the loop mode is configured, one or two bands and polarities should be available for all demodulators. In the second case, the first connector will deliver to TS A and the second to TS B and TS C.

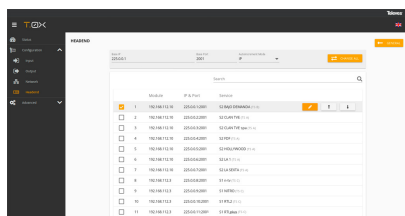
Programming of the entire headend selecting one of the module as a master



Configure one of the modules as a master of the entire headend. Any module can be selected as the master. Once the master mode is activated, the unit searches for other units connected to the network (ETH2).

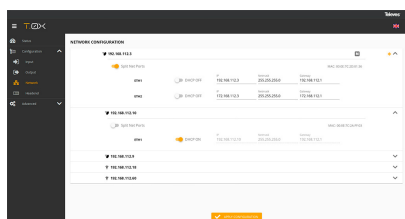
The units can be visually ordered in the web interface to identify them more easily with the real position in the headend. Each of the modules can be identified by temporarily activating the flash of the front LED.

Multiple addition of services



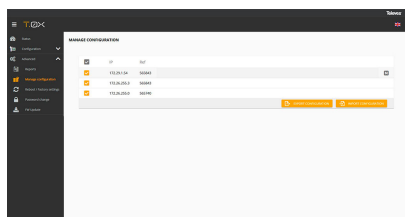
Multiple services can be added at once by selecting one base IP address and one base port, such as the wanted services, and an IP address or port auto-increment. The web interface will automatically generate the IP multicast addresses of each of the services, in terms of the selected parameters.

Separated networks in each module



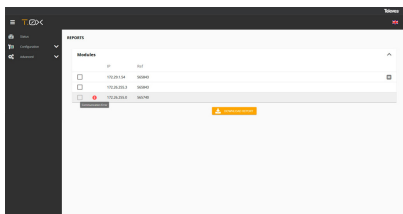
Each unit has two Ethernet RJ45 connectors, which can be used on a single network or on two separate networks, one for control and the other for video distribution. Users can enable the separation of these networks (Split Net Ports) and configure the IP address, subnet mask, and default port link, as well as the DHCP client mode.

Cloning of headends configurations



The web interface allows to export/import files for duplicating units (or complete headends) configurations. This function helps to reduce time in typical installations, due to having previously a configured file. The exportation of these files also allows to have a headend configuration backup.

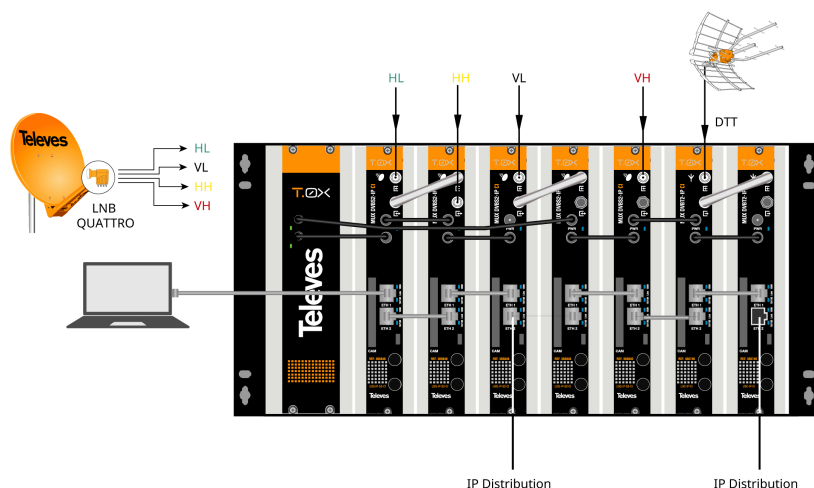
Status reports generation



Users can download report files on the selected unit, or of the complete headend, to make easier debugging in the event of an incident.

Application example

(Click to see the picture)

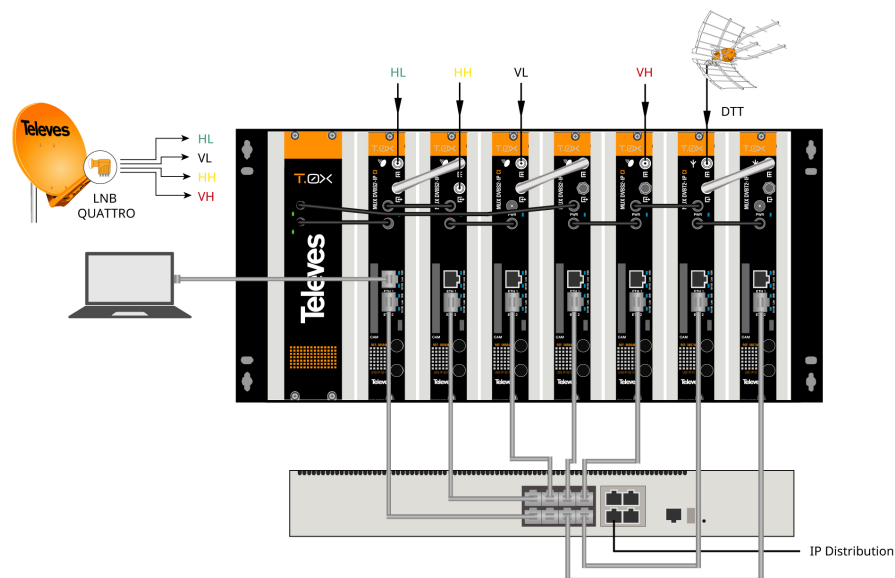


HEADEND CONFIGURATION WITH ETHERNET CABLE

The unit's IP must be known to access its control web interface. By default, this code is printed on the rear label.

1. Connect a PC directly to the module's ETH1 port with an Ethernet cable.
2. Configure the PC's IP address on the same subnetwork as the module.
3. Open a browser and go to the URL https://ip_module

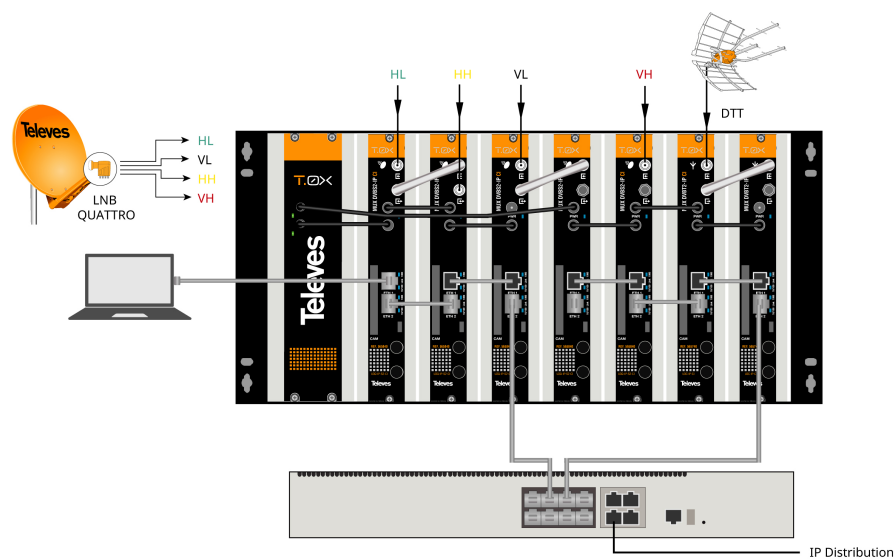
(*) Maximum Bitrate per unit is 150 Mbps. Maximum Bitrate with looped units is 500 Mbps.



DISTRIBUTION NETWORK CONNECTION

Connect the units' ETH2 outputs to the external video distribution switch with Ethernet CAT6 cables.

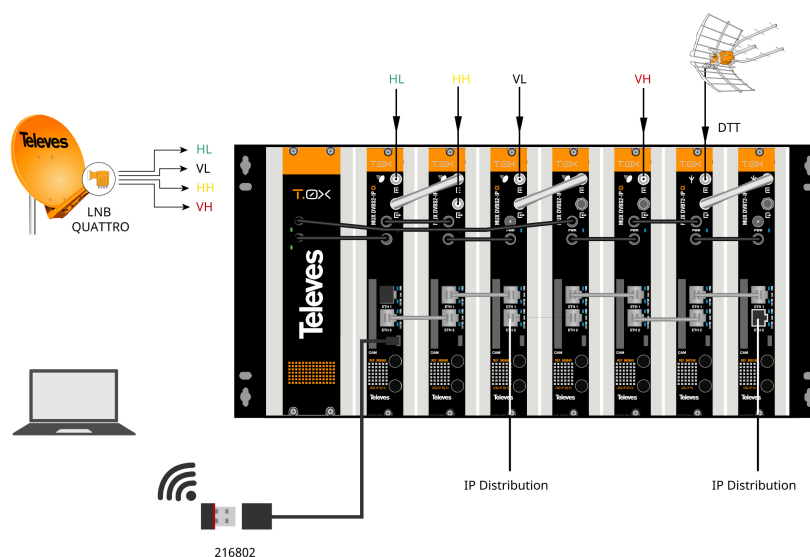
(*) Maximum Bitrate per unit is 150 Mbps. Maximum Bitrate with looped units is 500 Mbps.



DISTRIBUTION NETWORK CONNECTION (2)

Another option is to create a loop between one unit's ETH2 connectors and the ETH1 of the next unit, and only connect the ETH2 connector of the last module as shown. This solution is the most recommended due to the separation between control and distribution networks (Split Net Ports mode).

(*) Maximum Bitrate per unit is 150 Mbps. Maximum Bitrate with looped units is 500 Mbps.



HEADEND CONFIGURATION WITH WIFI ADAPTER

The unit can also be connected via Wi-Fi using the adapter kit Ref. 216802. This adapter must be connected to the micro USB port on the front of the unit. After an automatic initialization process, connection to a Wi-Fi network will be possible, provided its SSID has the following format: Televes_mng_XXYYZZ. To go to the configuration website, open a browser and go to the URL "config.t0x".

(*) Maximum Bitrate per unit is 150 Mbps. Maximum Bitrate with looped units is 500 Mbps.

Technical specifications

| | | | | |
|--------------------------|----------------------------------|--------|----------------------------|---|
| SATELLITE DEMODULATOR | Input frequency | | MHz | 950...2150 |
| | Symbol rate | | Mbaud | 2 - 45 |
| | Frequency steps | | MHz | 1 |
| | In/Out connectors | | tipo | "F" female |
| | Input impedance | | Ω | 75 |
| | LNB powering | | Vdc/KHz | 13 - 17 - OFF / 22KHz (ON-OFF) |
| | Satellite selection (DiSEqC) | | Port | A, B, C, D |
| | Through losses (typ.) | | dB | < 1,5 |
| | Modulation | DVB-S2 | QPSK, 8PSK | |
| | | DVB-S | QPSK | |
| | FEC inner code | | LDPC | 9/10, 8/9, 5/6, 4/5, 3/4, 2/3, 3/5, 1/2 |
| | FEC outer code | | Bose-Chaudhuri-Hocquenghem | |
| | Roll-Off factor | | % | 20, 25, 35 |
| IP OUT | Input SWR (min.) | | dB | 10 |
| | Mode | | | Multicast/Unicast |
| | Format | | | SPTS |
| | Protocol | | | IPv4, UDP/RTP, DHCP |
| | Number of IP services | | | Max. 32 |
| | Connectors | | | 2 X RJ45 (1 GB Ethernet 1000 BaseT) |
| GENERAL | Consumption 24Vdc (Base+CAM+LNB) | | mA | 1050 (450+100+250/LNB) |
| | Protection index | | IP | IP20 |
| | Temperature range | | °C | 0...45 |