

## DVB/IPTV → DVB-T/C, IPTV Transmodulator

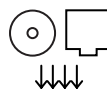
Receives contents from 4 DVB-T/T2, DVB-S/S2, DVB-C or IPTV transponders/muxes, decrypts and broadcasts them in 4 DVB-T or DVB-C or on IPTV output channels.



Quad universal RF tuner  
4 IPTV inputs



2 CAM slots



IPTV or 4 DVB-T or DVB-C channels  
selectable output



Remote management enabled

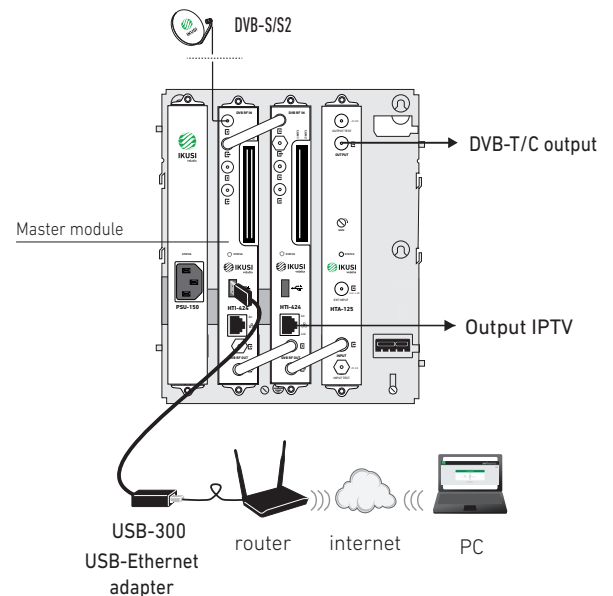
## GENERAL FEATURES

- The HTI-424 module can receive TV content from 4 DVB-T/T2, DVB-S/S2 or DVB-C muxes and broadcasts them in 4 DVB-T or DVB-C or on IPTV output channels.
- One module acts as the “master” to ensure the configuration (remote or local through PC) is carried out at the complete headend level, through the IKUNET bus and not module by module.
- It allows a future increase in services to be foreseen in order for the televisions to have them already on their lists, avoiding the need for retuning.
- It has two Common Interface slots (EN 50221) for discretionary decryption of programmes in accordance with the inserted CAM module.
- It allows a video service to be sent with several different languages without taking up more space than that corresponding to an RF channel. The television shows “a programme” for each language, avoiding the need for users to have to choose their “language” on the television remote control.
- It is compatible with the “IKUSI HEADEND DISCOVERY” PC application. This instrument provides installers with a tool that allows them to detect the headend’s modules without having to modify the PC’s network configuration (download from [www.ikusi.tv](http://www.ikusi.tv)).
- It allows channel lineups to be created and managed remotely, ensuring that the lineup is completely customisable without having to work in-situ.
- The four DVB-T/C output channels can be distributed onto any part of the band.
- Total control of the multiswitch using the DiSEqC protocol.
- USB-300 to Ethernet adapter for local or remote configuration. Also, it can be done through the Ethernet port.
- The four IPTV MPTS outputs, in combination with the IPTV inputs, allow service exchange links to be setup.
- The IPTV inputs permit easy injection of external TV content (for example, info channels).

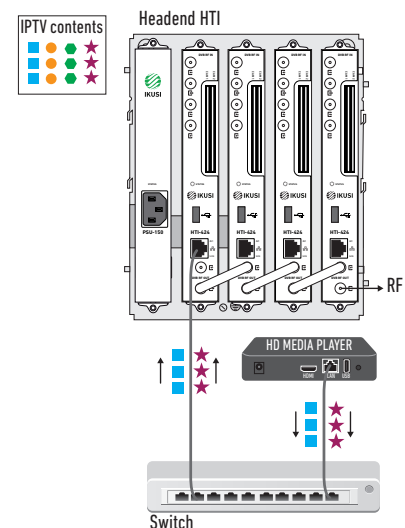
## TECHNICAL FEATURES

MODEL		HTI-424
REF.		3863
Universal RF inputs		4 (or 1+loop through)
Input frequency range	MHz	DVB-T/T2 : 47-862
		DVB-S/S2 : 950 - 2150
		DVB-C : 47-862
Input level	dBµV	40 - 92
Symbol rate	MS/s	DVB-S: 1...45
		DVB-S2: 1... 45
		DVB-C: 1... 6.952
Maximum input current		100 mA in connectors 2 and 4 250 mA in connectors 1 and 3
DiSEqC support		Up to 16 polarities with DiSEqC 1.0 (Note1)
<b>IPTV Inputs</b>		
Input interface		Front RJ-45 Gigabit Ethernet
Number of inputs		4 (SPTS o MPTS)
MPEG TS Encapsulation		188 byte packets, ISO/IEC 13818-1 compliant
IP Encapsulation		UDP : UDP+RTP
IPv4 Reception Mode		Multicast
Maximum Ethernet MTU		1500 bytes
IP fragmentation support		No
Discovery Protocols		No
IGMP supported		Yes, IGMP v2
RTP reordering supported		No
SMPTE 2022-1 FEC supported		No
Maximum input bitrate (per input)		216 Mbps
Maximum input bitrate (total)		850 Mbps
<b>TS Processing</b>		
PSI/SI adaptation		Generating and inserting tables PAT, PMT, CAT, SDT, BAT, NIT, TDT, TOT, EIT
NIT adaptation		Yes (automatically generated)
SDT adaptation		Yes (configurable input name)
LCN, TDT, TOT management		Yes
Cloned services		Yes, from any input to any output
Number of Common Interface slots		2

## BASIC APPLICATION + CONNECTIVITY



## MEDIA PLAYER / INFO CHANNEL



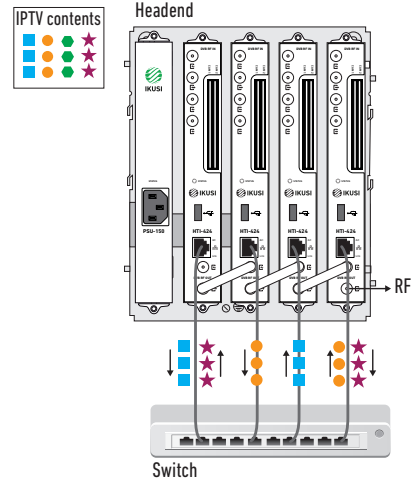
RF Output		
Number of outputs		4 channels DVB-T / DVB-C (47 - 862 MHz)
MER	dB	> 40
Output level	dBμV	85
Maximum output bit rate DVB-T	Mbps	31.67
Operation modes DVB-T		2K / 8K
Output bandwidth DVB-T	MHz	6 / 7 / 8
Modulation formats DVB-C		16 QAM / 32 QAM / 64 QAM / 128 QAM / 256 QAM
Maximum output bit rate DVB-C	Mbps	53
Adjustable output level	dB	-15
Symbol rate DVB-C	MS/s	3 ... 7.2
Output loop-through loss	dB	1.1

IPTV Output		
Number of SPTS outputs		64
Number of MPTS outputs		4
Transmission protocols		SPTS : UDP and RTP MPTS : UDP
SAP protocol		Yes
Interface type		RJ-45 Gigabit Ethernet
Output maximum bit rate		850 Mbps

General		
Configuration		PC. Interface web Ikusi Headend Discovery (v1.8.5)
Management interface		USB 2.0 Host frontal
Supply voltage	VDC	+24
Operating temperature	°C	0... +45
Consumption	A	1
Dimensions	mm	230 x 195 x 32
Weight	kg	1.165
Protection index	IP	IP20

Note1: Call for availability of DiSEqC 1.1

## EXCHANGE OF SERVICES



## EDGE - QAM / COFDM

