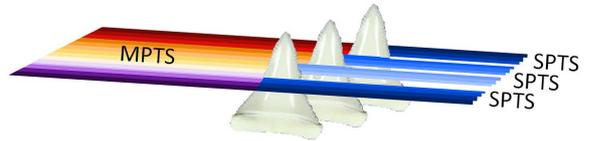


WEB GUI	64 IP 4 ASI	SFP Fiber	VBR Out	64 SPTS	Low Price
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IPTV REMULTIPLEXER



The IPTV remultiplexer produces SPTS streams, that is, IP data streams with one single service per stream, which form the basis of the IPTV program distribution

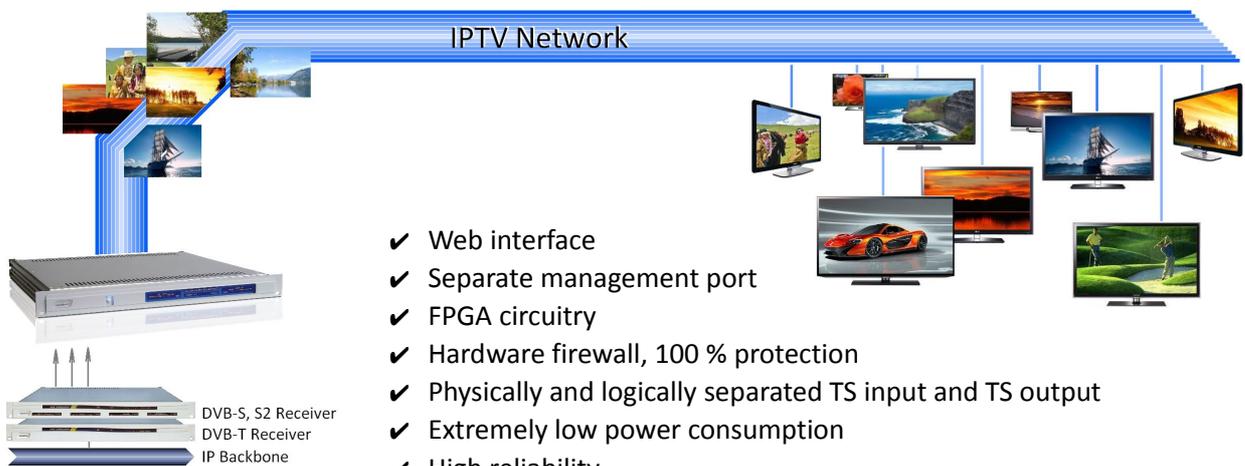


The simplest and less expensive way of distributing television programs is broadcasting over IP network. In this kind of IPTV systems the television services will be distributed in SPTS data streams (each service is carried in a separate data stream).

The IPTV Remultiplexer receives the mostly MPTS type signals (multiple programs in one stream) of satellite receivers, terrestrial receivers, studios, trunk lines and other signal sources and cuts them up into individual data streams that will then be delivered as multicast data streams. CableWorld's IPTV Remultiplexer produces the data streams of 64 different programs simultaneously.

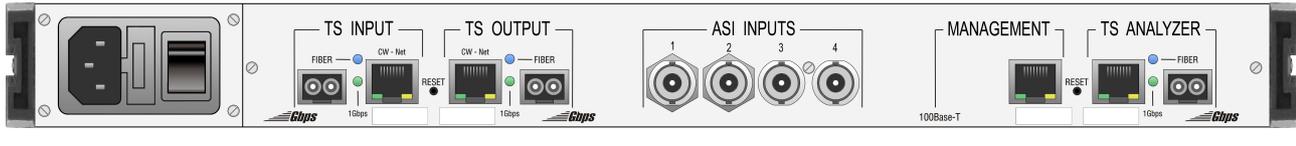
The IPTV Remultiplexer is capable of producing SPTS signals for feeding backbones from input signals of any format (SPTS, MPTS, Elementary stream). The capability of the device permits producing the data streams even for the largest backbones carrying 100-200 programs, with the use of two or three IPTV Remultiplexers only.

- Fields of application:
- ✓ Producing live streams for IPTV services
 - ✓ Feeding backbones with SPTS streams
 - ✓ Feeding QAM modulators with SPTS streams



- ✓ Web interface
- ✓ Separate management port
- ✓ FPGA circuitry
- ✓ Hardware firewall, 100 % protection
- ✓ Physically and logically separated TS input and TS output
- ✓ Extremely low power consumption
- ✓ High reliability
- ✓ Long lifespan
- ✓ Available also for 24 V and 48 V

IPTV REMULTIPLEXER



Technical data

IP input

TS input	10-, 100- and 1000Base-T
Protocol	Ipv4, ARP, IGMP, ICMP-Ping, UDP
Number of inputs	64 unicast / multicast connections
Connector type	RJ-45
Optical input	receptacle for SFP (Mini-GBIC) module

IP output

Transport stream	10-, 100- and 1000Base-T
Protocol	Ipv4, ARP, UDP
Number of outputs	64 UDP/IP streams
Connector type	RJ-45
Optical output	receptacle for SFP (Mini-GBIC) module

Management port

IP input	10-, 100Base-T
Protocol	Ipv4, ARP, ICMP-Ping, TCP, UDP
Connector type	RJ-45

ASI inputs

Standard and protocol	according to TM 1449 Rec. 1 (for interconnection between devices)
Impedance	75 Ω
Number of connectors	4 BNC sockets
Input data rate	max. 640 Mbit/s (the total for all ASI inputs)

Transmission parameters

PID filtering	for 64 × 8192 PID values
PID remapping	for all PID values
Number of output modules	64 streamers with free programmable IP address, MAC address and Port number
Size of the transitional buffer	6 Mbit/channel, DDR2 SDRAM
Output data rate	1 UDP/sec to 65,535 UDP/sec (up to approx. 200 Mbit/s in 10.5 kbit/s raster)
UDP format	1 to 7 TS packets/UDP
PCR correction	no PCR correction (the PCR data will be transmitted without change)

General data

Mass	approx. 3.5 kg
Physical dimensions	19" × 1 HU
W × H × D	483 × 43.6 × 473 mm
Service period	continuous
Power requirement	90 to 264 V, 47 to 440 Hz
Power consumption	max. 25 W
Temperature at operation	+5 to +40°C (relative humidity max. 80 %)

Programming of the device

Programming and control	over separate management port, in web environment, optimized to the Firefox browser
Default IP Address	192.168.10.10

Beside delivering IPTV signal, the device is also suitable for feeding QAM and OFDM modulator types, which are equipped with remultiplexer at their input. These modulator types need SPTS feeding, and they assemble the MPTS data stream for the HF modulator on their own. The 64 output streams of the IPTV Remultiplexer permit feeding even 6-8 modulators simultaneously.

The IPTV Remultiplexer does not produce null packets, and does not modify the PCR data either: the TS packets that carry the picture and sound will be transferred to the output unchanged, except for the PID value. The output data rate varies with the input data rate, which is usually variable (VBR). The advantage of the VBR streams is that they load the IP network to the necessary extent only. The IPTV Remultiplexer is capable of producing also MPTS streams of variable data rate thus it can feed also HF modulators, which are equipped with high quality PCR corrector.

One more important aspect: the output of the IPTV Remultiplexer gives the safest solution against hackers' attack since the protection (firewall) is implemented with the hardware.

Ordering data:

CW-4456 64-Channel IPTV Remultiplexer
64 TS Remultiplexers with 64 IP and 4 ASI inputs and separate management port

CW-4556 64-Channel IPTV Remultiplexer
64 TS Remultiplexers with 64 IP inputs and separate management port

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