

IP-Core IP-TV: IP Streamer

Application

- Receivers connected over Ethernet with single wiring
- Efficient bandwidth utilisation: Only the currently needed bandwidth is used for each viewer

TV Transmission over Internet

- Input: Transport stream parallel 8-Bit SPI
- Output: Several concurrent services (TV or radio) over Ethernet
- Individual multicast adresses for each service (SPTS), unicast, broadcast
- Netto data rates up to 100 Mbit/s
- SAP and SDP announcement of the services
- Transport over UDP/RTP

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Mail info@maintech.de Web www.maintech.de TV over Internet is a solution that becomes increasingly important when planning the TV supply for new buildings: A daily challenge for the providers of classical cable head-ends.

Supplying the TV viewers over IP-TV saves costs and efforts, because there's only a single wiring necessary. Moreover, the available bandwidth is exploited optimally in the multicast mode: Thanks to the SPTS mode, each viewer demands the currently needed bandwidth only.

IP-TV is an attractive solution for distant locations and for the connection of different buildings, too. Over a low-priced and stable ethernet connection, the IP-TV head-end is able to provide also distant receivers with TV signals.

To transform the incoming DVB signal to an IPenabled ethernet stream and to make it receivable for the subscriber's IP network, our IP-core is a number one choice. The IP-core works with the most important standard: RTP. With RTP, video, audio and text data streams can be encapsulated and sent over IP-based networks.

According to the requirements, the data transmission may run over broadcast (data transmission to all destinations), unicast (individual data stream) or multicast (smaller network load, SPTS mode); for the distribution, additional Ethernet switches are needed.

The data streams can be received by a computer with video player software, or by an IP-TV-enabled set-top-box that passes the signals over to the television. Other mobile end devices with internet reception may be qualified for IP-TV, too.

Interfaces	
Input	MPEG2 TS parallel
Output	100 Mbit/s Ethernet 802.3



