

IP-Core IP-TV: IP Streamer

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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 addresses 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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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 IP-enabled ethernet stream and to make it receivable for the subscriber's IP network, our IP-core is a number one choice.

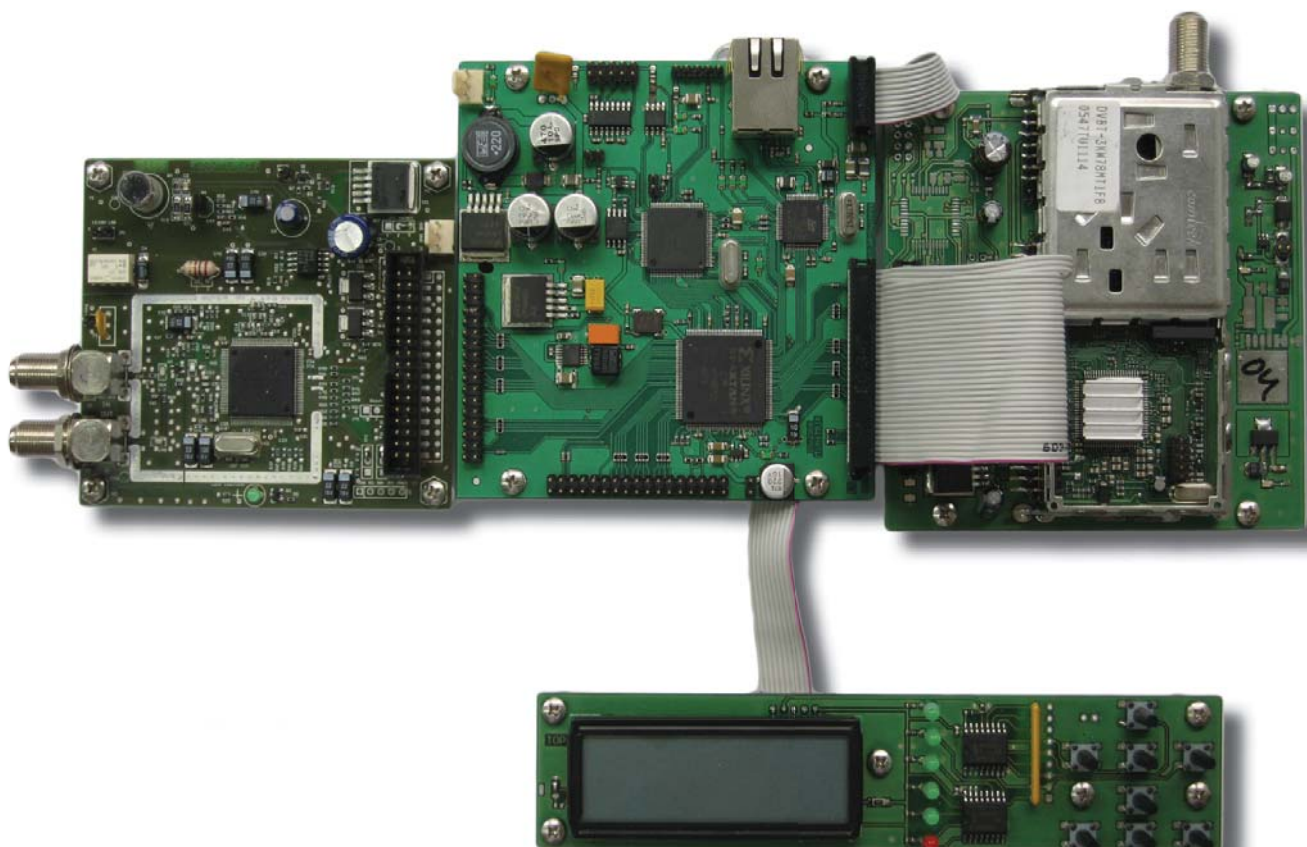
The IP-core works with the most important standard: RTP. With RTP, video, audio and text data streams can be encapsulated and sent over IP-based networks.

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



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