



## IP-Core RTP Receiver

**maintech**  
GmbH

maintech's RTP Transport Stream Receiver IP-Core converts a RTP transport stream, transmitted according to RFC3550, to a 8-bit parallel interface (analogue to DVB-S/-T/-C demodulators).

- Upgrade of already existing DVB components for IP-TV with smallest effort
- Datapath without CPU: TS Data rates of up to 80 MBit/s (on 100 MBit/s Ethernet)
- Possibility for the CPU interface to share the Ethernet interface
- Usable in routed networks thanks to the effective de-jittering and reordering
- PCR correction
- MPTS and SPTS possible
- Operating modes: Multicast, Broadcast or Unicast

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maintech's DVB RTP receiver connects the world of IP-TV with classical DVB components. The RTP datastream is received from Ethernet and split up, the transport stream packages are buffered and output on a 8-Bit TS-port instantly. An integrated PCR correction provides an output signal that is 100% standard-compliant.

Network jitter of up to several hundred milliseconds is absorbed by an external memory (SDRAM). Thus, your hardware can be run without any problems in routed networks, too.

The implementation is so efficient that it even fits in a Spartan III XC3S400. Only ARP and optional additional services such as DHCP, SAP/SDP, etc. have to be implemented on a CPU. The datapath proceeds completely in the FPGA which allows data rates of up to 80 MBit/s.

For testing the RTP receiver most conveniently, we provide an evaluation platform (see fig.) to your disposal. If you already have a matching hardware platform, we can offer you a testing netlist with limited duration for free. We'll support the adaption to your hardware, too.

Whether you want to integrate the IP-Core in a complex design concept or are looking for an additional module for already existing hardware, in any case we will provide advice and assistance for your project design without obligation.

Additionally, you may benefit from our services supporting the IP-Core's implementation, e.g. CPU software development, customised extensions and hardware design.

Don't hesitate to contact us – we'll be glad to help you along!

