



## Ethernet over DVB Bridge

### Ethernet Transmission via DVB

- Transparent ethernet connection - no routing. To the network, the link looks like a wire
- Connected to a DVB-T modulator, the bridge provides netto data rates up to 30 mbit/s
- Stable Connection - significantly better than via WLAN
- Possibility of working with power amplifiers due to the separated input / output paths
- Based on an embedded Linux system: Linux development at request possible

### Option

- Multiplexing with video and audio streams

**maintech**  
GmbH

**SR-Systems**

maintech GmbH  
Otto-Hahn-Straße 15  
D-97204 Höchberg  
Germany

Tel +49-(0)931-4070690  
Fax +49-(0)931-4070653

Mail [info@maintech.de](mailto:info@maintech.de)  
Web [www.maintech.de](http://www.maintech.de)

## Ethernet Bridge

Besides video and audio transmission, DVB features data transmission of all kind as a universal medium. The powerful error correction, the guaranteed data rate and the small channel bandwidth make a DVB solution more interesting than e.g. WLAN or other link systems.

### Modulation Types

The bridge only being an interface between ethernet and SPI bus makes it possible to choose every modulation type that modulators and tuners are available for.

There is a completely separate link for each of both directions built up. That makes an asymmetrical operating feasible; for example a modulation configuration with greater transmission power in direction of the greater data volume with a stronger error correction on the return channel.

In addition to that, you can equip the bridge with ASI-in and ASI-out to multiplex an ethernet connection on an existing ASI-link.

### Application Possibilities

- Data links between different locations
- Remote control of other DVB components
- Mobile data connections under difficult circumstances (multipath propagation)
- Application on frequencies that are inaccessible by another way (with corresponding up- and down-converters)
- Surveillance cameras with return channel, for example with rotating swivel base or announcement loudspeaker
- Bridging of ethernet data over ASI

## Specifications

Ethernet-Bridge	
Interfaces	<ul style="list-style-type: none"><li>• TS input (8 bit parallel + clock &amp; sync)</li><li>• TS output (signals corresponding to input)</li><li>• Ethernet (10/100 mbit/s, HD, FD)</li><li>• USB for firmware-upgrade</li></ul>
Throughput	Up to 30 mbit/s
Modulation	Depending on transmitter and receiver equipment; asymmetrical structure is possible
Encryption	CSA (64 bit)

General information	
Power input	7 - 24V, ~5W
Dimensions	120x100 mm