TeamCast
t e c h n o l o g y

XTTB-MT2F-2010
FLEX OEM Regionalyzer Board

DVB T2

Key Benefits

- **Innovation solution to transport metadata & payload to transmitter sites**
- **SFN Stream switching capability**
- **Fully compliant with DVB-T2 standard**
- **Cost-effective, reliable and compact OEM design**

Description

FLEX comes as very innovative solution to implement a new method for transmitting a standard multiplex TS stream from the head-end to the transmitter sites. This new concept consists in using IP existing protocols (IP, UDP, RTP) to carry the required information payload as well as metadata (signaling) for a full standard DVB-T2 transmission.

In addition, FLEX provides capability for program switching at the transmitter sites with no impact on the SFN network operating.

Indeed, FLEX integrates a mechanism to replace part(s) of the primary stream with streams received from the secondary interface.

One main application could be local program insertion. Again, the stream insertion is performed according a deterministic algorithm in order to maintain the SFN operation.

FLEX brings the possibility to use both TS/ASI as well as IP based distribution network.

FLEX products come as very compact and OEM products, ready to be integrated.

FLEX is part of TV transmitter and as very compact OEM product can be easily integrated.

Designers can elect to manage the FLEX products by using the open and simple serial protocol, or to develop their own GUI as required.
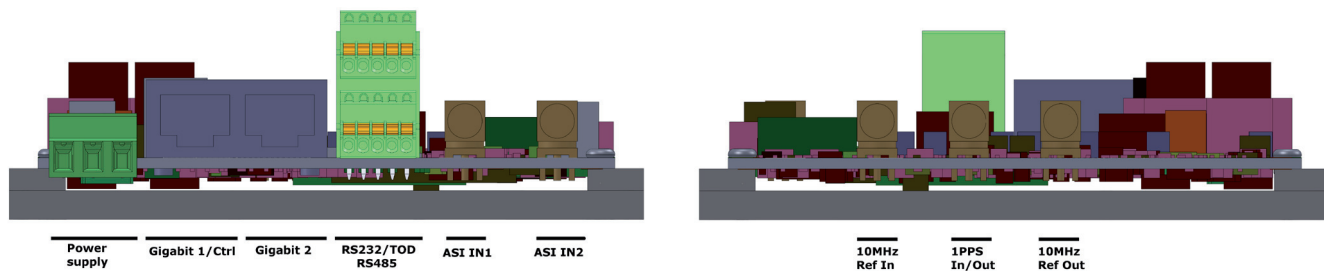
Key features:

- Deterministic program switching
- TS/ASI interfaces
- DVB-T2 SFN compliant
- Single 12V voltage supply
- Transparency for SFN operating

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Connectors

| Power supply | Gigabit 1/Ctrl | Gigabit 2 | RS232/TOD RS485 | ASI IN1 | ASI IN2 |

| 10MHz Ref In | 1PPS In/Out | 10MHz Ref Out |

Specifications[1]

■ Standards
o DVB-T2 : TS 102 831, EN 302 755, TS 101 191, ISO/IEC 13818-1
o IP : IETF RFC 791 (IPv4), IETF RFC 768 (UDP), IETF RFC 3550 (RTP), RFC 2236 & RFC 3376 (IGMP)

■ ASI Stream Interfaces
o 2 x ASI input SMA connectors - 75 Ω
o 1 x ASI output SMA connector - 75 Ω
o 188/204 Bytes- 80 Mbps maxi. Packet/burst mode

■ Gigabit streaming inputs
o 2 x 10/100/1000 base-T - RJ45
o Protocols: IP, RTP, UDP, IGMP (V2 & V3)

■ Clock and Synchronization
o High quality internal clock
o 10 MHz & 1 PPS input/output
o Clock and time source redundancy management

■ Stream and Regionalization process
o Stream switching capability
o SI/PSI update
o EAS function
o IP / TS monitoring

■ Control & Monitoring
o 1 x 10/100/1000 base-T Ethernet port
o 1 x RS232 + 1 x RS485 serial control ports

■ Physical
o Single supply voltage (12 VDC)
o Power Consumption: < 28 W
o 240 x 110 x 35 mm
o Temperature: 0°C to 50°C

Ordering Information

XTTB-MT2F-2010	OEM Regionalizer with ASI input

[1] Specifications are not contractual and are subject to revision without notice.

TeamCast

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