

## BOARD PLUG-IN EK-MPA/4 "ASI TRANSPARENT MULTIPLEXER"



The EK-MPA/4 board is a 4 ASI to ASI transparent multiplexer (see EK-MPA/4 block scheme) and it is composed by four physical input represented by the four input BNC connectors located in the board panel, plus two internal inputs that are directly connected with the EK-MFR/2 by the internal connections matrix line (located in the EK-MFR/2). All the inputs are interfaced with the VC mapper unit so the transport stream present on a particular input can be mapped to one of the eight Virtual Channels (VC1 – VC8) of the VC mapper. If an input is not used it can be connected, by the menu, to the Waste container. After the mapping procedure between the input transport streams and the desiderated Virtual Channels an unique transport stream is generated with the data PID assigned by the menu. If the insertion of the SI TABLE is required the transport stream is multiplexed with the signals of the table generator and sent to the output module. The output module is directly connected with the two physical output connectors, represented by the two BNC connectors reported on the board panel, plus an internal output signal connected to the EK-MFR/2 between the internal matrix line connection (located in the EK-MFR/2). A particular hardware permits during a fault or when the board is not powered up, to carry out the transport stream present on the ASI input BNC "IN1" to the ASI output BNC "OUT M" connector (bypass mode). While on the "OUT S" BNC connector the output transport stream is present if the board in powered up only. For a correct functioning of EK-MPA/4 board must be utilized in relation with the EK-DMA/4 board.

### Features

- 4+2 different ASI input
- Complete web management

### Applications

- Digital Microwave Links
- DTV, DVB-T, DVB-S
- Management of several ASI signals



## TECHNICAL SPECIFICATION

Inputs	4 ASI + 2 internal
Input Stream type	ISO / IEC 13818-1
Outputs	2 ASI+ 1 internal
Output Stream Type	ISO / IEC 13818-1 Compliant with payload in one program private data
ASI Data-Rate	1-206 Mbit/s
Internal Data-Rate	1-54 Mbit/s
Performance / Overall jitter	ETR 101290
ASI i/o Reference	EN 50083-9
Max. Input cable length	200 m Belden 8281 except when in bypass mode
Power Consumption	7 W
Input / Output Connector	BNC FEMALE 75 Ohm

### BLOCK SCHEME

