Eurotek
Broadcast Solutions

BOARD PLUG-IN EK-DMA/4
"ASI TRANSPARENT DEMULTIPLEXER"

The EK-DMA/4 board is an ASI to 4 ASI transparent demultiplexer (see EK-DMA/4 block scheme) and it is composed by two physical inputs, represented by the two input BNC connectors located in the board panel, plus one internal input that is directly connected with the EK-MFR/2 between the internal connection matrix line (located in the EK-MFR/2).

The three inputs are connected to a selector controlled by the SEL IN parameter. By the menu it is possible to change the value of the SEL IN parameter to decide which input signal must be processed by the board. If the "AUTO" value is load on the SEL IN sub-menu the system automatically switch on the first valid transport stream input in according to the priority: IN1, IN2, INT IN.

The selected input transport stream is sent to the packet selector module that filters out all the packets except those with the selected DATA PID. The transport stream is then sent to the VC demapper in order to send any different virtual channels (VC1-VC8) to a different selected outputs.

The outputs of the EK-DMA/4 are six, four physical, represented by the four BNC located in the board panel (see EK-DMA/4 board panel) plus two internal directly connected to the EK-MFR/2 by the internal connection matrix line (located in the EK-MFR/2). For a correct functioning the EK-DMA/4 board must be utilized in relation with EK-MPA/4 board.

Features

- 4+2 different ASI output
- Complete web management

Applications

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

TECHNICAL SPECIFICATION

Inputs	2 ASI+ 1 internal
Input Stream type	ISO / IEC 13818-1
Outputs	4 ASI + 2 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