

EXBOX.BLDS

MADI REDUNDANCY SWITCH



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DirectOut
TECHNOLOGIES

EXBOX.BLDS

is a sophisticated MAD1 redundancy switch for production environments with advanced reliability requirements. In addition to the standard change-over from one input to the other in the case of a loss of the MAD1 signal, the unit incorporates a unique feature from DirectOut, the Buffer Loop Detection System™.

Enhanced Signal Control

The Buffer Loop Detection System™ is used to detect silence or a corrupted input signal- e.g. caused by an application hang of the playout system (repeating buffers) or stuttered playback due to system overload.

A provided software tool creates a .wav file containing a low level signal which is inserted into the MAD1 stream. The artificial design of the Buffer Loop Detection Signal enables reliable and inaudible switch-over within one sample. For less critical switching requirements a simple pilot tone can also be used to trigger automatic switch-over.

Input Switching

The MAD1 input can be switched manually by a push button on the front panel of the device. Different redundancy modes (prioritisation of inputs) offer the means to adjust the trigger behaviour of EXBOX.BLDS.

GPI/GPO

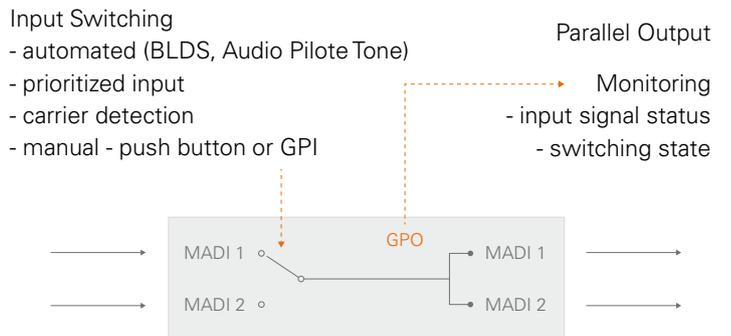
Four GPIs and four GPOs are accessible via DSUB-9 connectors. The GPIs may be used to select the MAD1 input or to trigger a switch-over. GPOs provide monitoring of the current input and switching state.

Service

The device can be updated with a new or customised firmware via the integral USB port.

TECHNICAL DETAILS

MADI Ports (I/O):	2 x ports- individually configurable: - SC-Socket multi/single-mode - coaxial BNC, 75 Ω - SFP (empty cage without module)*
Sample Rates:	44.1, 48, 88.2, 96, 176.4, 192 kHz
MADI Formats (I/O):	48k Frame, 96k Frame, 56/64 channel, S/MUX
GPIO:	4 x Voltage input via DSUB-9 female 4 x FET switch via DSUB-9 female
USB:	Mini USB 2.0 for firmware updates
Power Supply:	2 x Hirose DC input (7- 24 V)
Dimensions:	Width 140 mm Height 42 mm Depth 140 mm
Weight:	about 0.8 kg
* optional accessory: SFP modules (LC single-mode or multi-mode)	



Safe operation

Two robust Hirose sockets are available to plug in up to two external power supply units or battery packs for safe operating conditions with redundancy.

All-Round Functionality

EXBOX.BLDS offers highest flexibility as it provides two module based MAD1 ports. Available interface types are:

- optical SC (single-mode or multi-mode)
- coaxial (BNC)
- SFP



SC.IO



BNC.IO



SFP.IO