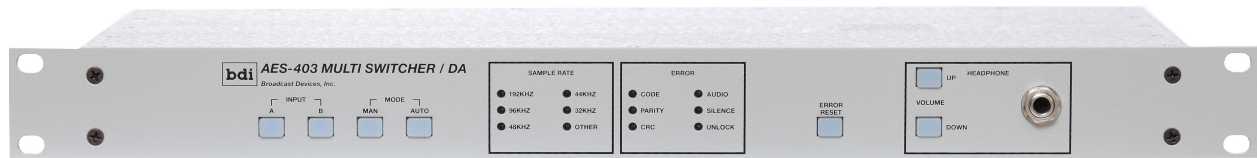# The AES-403 Two Input Automatic Multi Switcher

The Switcher ...

The AES-403 is a 2 input AES3 compatible digital audio switcher or can be configured to accept an analog balanced left/right pair on one channel forming an analog/digital switcher combination. Similar to the BDI AES-402 the unit has a silence sensor and can be programmed to automatically switch to an alternate path in the event of channel loss due to silence or digital errors. Uses include EAS audio injection for plants supporting analog and AES3 audio distribution for broadcast or virtually any application where switching between analog and digital audio paths are desired. Or use as a two input digital switcher, the choice is yours.

The Distribution System ...

Two AES digital outputs are available for distribution to independent 110 ohm balanced lines. Ruggged RS422 line drivers provide excellent driving capability for long lines. Analog L/R output is also provided. .

The Diagnostic Monitor ...

The unit features complete error flag information with memory retained to aid in troubleshooting. Slipped sample, CRC error, parity error, coding error and unlock status are available. There is a sample rate indicator included too.

The D/A Converter ...

The AES-403 features up to 192 KHz, 24 bit convervsion with balanced output for professional analog applications. There is also a front panel headphone output for confidence monitoring. Balanced analog left/right output conforms to industry standard +4 dBm output for -20 dBFS.

The Rest of the Story:

Part of a series of digital audio products from BDI the AES-403 Multi Switcher has features that few switchers have which makes it suitable for broadcast, professional audio, recording, and ENG truck use. Professional switching, distribution, diagnostics and digital to analog conversion all in one package The AES-403 can even manage non audio standard AES formats for switching and distribution. DIP switch programming of functions allows the user to customize which features for use in different audio situations. Lightweight aluminum construction in a standard EIA rack enclosure makes the AES-403 a great solution for portable setups for transportable rack configurations. Don't settle for so called low cost solutions that don't use XLR connectors, require a rack adapter kit or use "wall wart" power supplies. The AES-403 is a single EIA compatible rack enclosed product with a rugged internal power supply.

Snapshot of Features:

Two - Input Digital Switcher - one channel configurable to accept balanced analog L/R input
Two - Digital Outputs
One - Balanced Left/Right Analog Output
Front Panel Digital Status
Headphone Confidence Monitor Output
Remote Control of Channel Selection GPIO and RS232/485 Serial
Status of Channel Position
Global Power Supply - works virtually anywhere in the world

User On/Off Configurable Options:

Silence Detection of 30, 60, 90 or 120 Seconds or no silence detection at all
Silence Threshold flashing indicator - flashes after 15 seconds of silence
Delayed or immediate switching upon clock loss and digital errors
Muting of non audio streams on analog output

Technical Specifications

Number of Inputs:	**2 - XLR Conforms to the AES3 Standard - One input configurable to analog L/R input + 4 dBm**
Number of Outputs:	**2 - XLR Digital, 1 - Analog Left/Right + 4dBm**
Sample Rates Supported:	**32 - 192 KHz**
Digital Resolution:	**Up to 24 bits**
Front Panel Switches:	**7 - Channel Selection Error Reset, Volume Up/Dn**
Front Panel Monitoring:	**LED Indication of Sample Rate, Error Status,**
Power Remote Control/Status:	**Open Collector control of channel selection**
	Open Collector control of channel selection
	Open Collector Output Channel
	Status via 9 Pin D connector or RS232/485 R/C
	via 9 Pin D connector
Headphone Monitor:	**1/4" Phone Jack on Front Panel with Digital Volume Control**
Physical Dimensions:	**19"W X 1.75"H X 10" D**
Power Requirements:	**100-240 VAC 50 - 60 Hz**
Environmental:	**0 - 60 Degrees C. Non Condensing Atmosphere**

Authorized Distributor: