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BVRD2M

8 x 8 audio router, max 68 inputs, 87 outputs & 30 messages
EN 60849, BS5839 part 8, EN 54

EN54-16

MADE IN 

5 year warranty

- The BVRD2M is an audio router EN54-16 compliant. Designed for complex applications our team is at your disposal to fix the system which will fit to your requirements.



- It is composed of the following :
 - 2 x RS485 half-duplex ports for communication to control
 - DSP (Digital Signal Processor)
 - Balanced audio inputs & outputs on RJ45
 - Aux 24V Output, Max output 1A
 - Monitor speaker to listen to inputs or outputs
 - Access Control / System Configuration Key Switch
 - Analog / Digital conversion of the 8 audio inputs
 - If an Amplifier failure is reported the BVRD2M will switch in the relevant Reserve amplifier via BVRDACO
 - USB port connection on front panel
 - Inputs & Outputs levels can be set
 - Settings via the LCD display, Multi Function Encoder & 7 buttons to navigate or software
 - Inputs : 8 electronically balanced inputs. Inputs 1 and 2 are configurable with 'all call' processor bypass and are normally reserved for fire microphone(s). There are 5 Access Levels to allow different personal the relevant level of access to the system configuration options.
 - Inputs priority level : Up to 15 priority levels are available. If two concurrent routes are set at the same priority, they will be treated on a 'first come first served' basis. Priorities are changeable.
 - Input settings : 3 band parametric plus bass and treble equalisation on all inputs (with limiter/compressor), enhancing the intelligibility of the system.
 - Outputs : 7 x electronically balanced 0 dBm audio outputs, with 10 bands parametric equalisation and audio delay of up to 1 second. Optional limiter / compressor.

- Log : Built-in realtime clock enables detailed logging and reporting, including detected faults. Indicates time, date, month and year. Also used for night time volume reduction, timed message trigger and to control external inputs. The history log can be accessed via the USB2 port on the front panel.
- Messages : 6 flash stored (57 second) messages with independent level, monitoring and timing. (For longer, non-critical messages, up to 3 can be combined.) Frequency response 18 kHz, storage on Flash memory. 'All call' failsafe emergency message generator (20 seconds EPROM). Message synchronisation, even on a decentralised system.
- Chime : 9 selectable chimes / pre-announcement tones of up to 8 seconds in length.
- Expendable : Expandable with BVRD2S (slave router) 12 Inputs / 16 Outputs (12 messages each) or BVRD2SL 6 Inputs / 8 Outputs (6 messages each).
- Network extension : Up to 126 EVAS routers can be networked using fibre or copper to produce a truly sophisticated digital VA network.
- Noise sensing : Level adjustment according to the ambient noise of the area.
- BVRD mic control : There is also a single "All Call" fail safe EPROM message generator that can be used in the unlikely event of processor failure.
- Serial port : 2 x RS485 half-duplex ports for communicating to control microphones, fire detection systems, network control, fault reporting.
- Connection : CANBUS modules mountable on RailDIN.
- Parameters : The messages, inputs, outputs & fault can be renamed.

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Audio Inputs Specifications :	
Input sensitivity	80 mV (- 20 dB) to 3 V (+12 dB)
Frequency response	-3 dB @ 30 Hz & 20 kHz
Signal to Noise ratio	Better than 70dB
Phantom power	12V
Three band parametric equalisation	
Frequency	50Hz, 63Hz, 80Hz, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 4kHz, 5kHz, 6.3kHz, 8kHz, 10kHz, 12.5kHz, 16kHz
Bandwidth	0.05oct, 0.1oct, 0.2oct, 0.33oct, 0.5oct, 0.66oct, 1oct & 2oct
Lift and cut	± 12dB in 1dB steps
Low filter	
Frequency	250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1kHz, 1.2kHz, 1.6kHz, 2kHz, 2.5kHz
Slope	3dB/oct & 6dB/oct
Lift and cut	± 12dB in 1dB steps
High filter	
Frequency	500Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 4kHz, 5kHz
Lift and cut	± 12dB in 1dB steps
High pass filter	
Frequency	100Hz, 150Hz, 200Hz, 250Hz, 300Hz
Slope	18dB/oct, 12dB/oct, 6dB/oct
Compressor	
Ratio	1.4:1, 2:1, 4:1, 8:1 & limiter
Attack	0-99 mS
Release	0-999 mS
Messages flash PROM	
Storage medium flash PROM (non-volatile)	57 seconds
Frequency response	-3dB @ 50 Hz & 18kHz
Signal to noise ratio	Better than 65dB

Audio Outputs Specifications :	
Nominal output level	0.775V (0dB)
Max output level	1.5V (+6dBm) @ 400 ohms – source = 400 ohms
Frequency response	-3dB @ 30Hz & 20kHz
Output to Noise ratio	Better than -85dB
Ten band parametric equalisation	
Frequency	50Hz, 63Hz, 80Hz, 100Hz, 125Hz, 160Hz, 200Hz, 250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 4kHz, 5kHz, 6.3kHz, 8kHz, 10kHz, 12.5kHz, 16kHz
Bandwidth	0.05oct, 0.1oct, 0.2oct, 0.33oct, 0.5oct, 0.66oct, 1oct & 2oct
Lift and cut	± 12dB in 1dB steps
Low filter	
Frequency	250Hz, 315Hz, 400Hz, 500Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz
Slope	3 dB / oct & 6 dB / oct
Lift and cut	± 12dB in 1dB steps
High filter	
Frequency	500Hz, 630Hz, 800Hz, 1kHz, 1.25kHz, 1.6kHz, 2kHz, 2.5kHz, 3.15kHz, 4kHz, 5kHz
Lift and cut	± 12dB in 1dB steps
Audio delay	
Selectable from 0 to 1 second	
Front panel	
Monitor speaker to listen to inputs or outputs	
Common fault indicator, sounder and fault accept button	
LCD display 40x2 characters, backlit. Rotary encoder to ease configuration, setting levels, entering text, etc	
POWER, DC requirements	
DC 22 V - 35 V @ 500 mA	