



ARCHEAN TECHNOLOGIES

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BVRD2M4

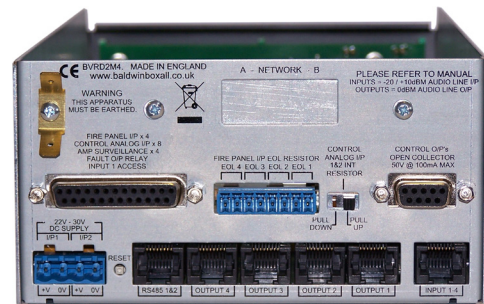
EN54, DSP audio router 4 IN 4 OUT

EN54-16

MADE IN 

5 year warranty

- 4 electronically balanced inputs. Input 1 is configurable with 'all call' processor bypass and is normally used for the fire microphone in voice alarm systems. All inputs have both independent priority and level settings, allowing for dual mode; emergency and normal page.
- Up to 15 priority levels are available. If 2 concurrent routes are set at the same priority they will be treated on a 'first come first served' basis. Priorities are changeable.
- Three band parametric plus bass and treble equalisation on all inputs (with limiter/compressor), enhancing the intelligibility of the system.
- Four audio electronically balanced (0dBm) outputs with ten band parametric equalisation and audio delay of up to 1 second.
- 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.
- 6 flash stored (57 second) messages with independent level, surveillance and timing.
- Settings and messages are changeable (password protected) via the USB2 port.
- Message synchronisation, even on a decentralised system.
- 9 selectable chimes / pre-announcement tones of up to 8 seconds in length.
- Ambient noise sensing (using optional ambient noise sensing microphones).
- 2 x RS485 half-duplex ports for communicating to control microphones, fire detection systems, network control, fault reporting.
- High : 2U



BVRD2M4

EN54, DSP audio router 4 IN 4 OUT

BVRD2M4 Audio Inputs Specifications	
Input sensitivity	80 mV (- 20 dB) @ 3 V (+12 dB)
Frequency response	-3 dB @ 30 Hz & 20 kHz
Signal to Noise ratio	Better than 70dB
Phantom power	12V
3 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

BVRD2M4 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
10 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, 0.1 oct, 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
Pente	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	
10 x LED fault indicators	
1 x common fault indicator	
Sounder and fault accept button	
Power	
DC 22 V - 35 V @ 500 mA	