

# Product overview

(March 2004 - [www.dmexx.com](http://www.dmexx.com))

## Dmatrixx Converterblocks up to 64/64 Channel AD/DA: 128 Channel AD/DA to MADI 24/48 Analog Digital Converter Unit



Two Converterblocks can be plugged together via BNC or Lightpipe to form a digital "analog" Multicore. Configured as "straight through" it fulfills the same tasks as any analog Multicore, though with an enormous extension of cablelength, (up to 3000ft on MADI lightpipe). Its cable is light and easy to carry and install, absolutely EM and hum resistant, and it can find its place in the tiniest gap of any existing installation, behind wallcovers or under carpets. Both units could also be used separately with digital mixers as Stagebox I/O and, in combination with Range-X modules, even 8Ch snakes on stage are no hassle.

Example:

### 16 X 16 Router: Compact Routing Matrix for 8 Channel Groups

Every Converterblock can be configured or muted in 8 channel groups (separately for In- and Outputs). e.g. Analog-In 1-8 to Madi-Out 25-31, Analog-Out 1-8 to MAD-In 57-64 etc.



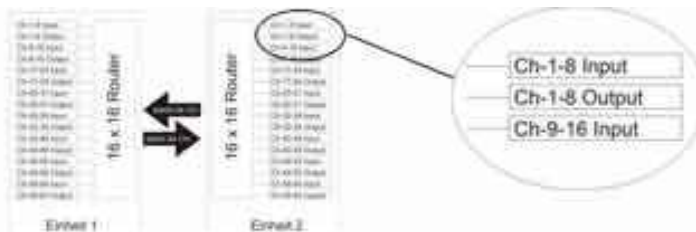
Beispiel:

### 2 to 8-times splitting: 2x32 to 8x8 Splitterbox

Every Converterblock can work as audio-splitter.

Example: Audiochannel 1-32 can be output on DA 1-32 and in the same time parallel also on DA 33-64.

Especially for broadcast, Live TV or PA purposes this feature adds additional value to the system. No extra splitterboxes are necessary. All settings, including sync, split, router input-select etc are remotely configurable through a control PC. The settings are permanent, and even after a complete power blackout all of them stay where they were set to before.

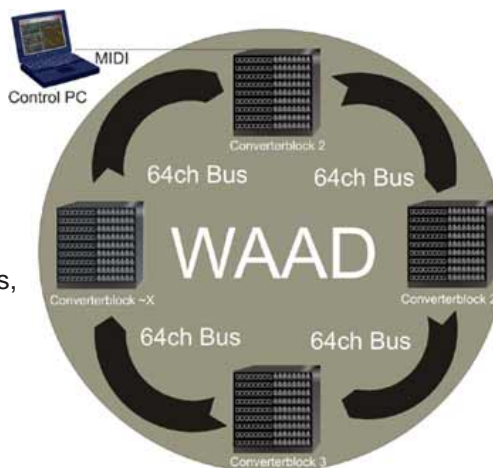


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## Wide Area Audio-Distribution (WAAD):

Multiple Converter Blocks can form a wide area Audio Distribution connected via MIDI lightpipe or BNC. In addition to all features stated above, the system provides a 64 ch MADI based token ring inter-connection between all units. If lightpipe is used, the distances between the units can easily exceed 500m (1500ft). In this case the Converterblocks divide the MADI bus into 8 slots any slot with 8 Audio channels, providing a very costeffective and flexible audio distribution system. Connected to one Converterblock, through MIDI or Ethernet (with ethermidi-box) the Control-PC can access all other Converterblocks via Madi, to setup alter or surveil any unit separately.



- Unit 1** feeds Input 1-8 and 17-24 to Slot 7 and 8, receiving Slots 7 and 8 to outputs 9-31 eg. 32-64 splitting it 4 times.
- Unit 2** feeds Input 25-31 and 40-48 to slot 3 and 4, receiving Slot 1 to outputs 1-64 splitting it 8 times.
- Unit 3** feeds Input 1-8 and 9-16 to slot 5 and 7, receiving slot 8,2,3,6,4 to outputs 1-8, 9-24 split 2x, 25-39 split 2x, 40-48 and 49-55
- Unit 4** splits input 1-8 5x to output 25-64 feeding input 9-16 to slot 6 and input 17-24 to slot 8 receiving slot 5 to output 17-24 slot 1 to output 9-16 and slot 7 to output 1-8.

