

# Produktübersicht

## Tech specs Dmatrixx

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

"Native DSP" Based I586 System with XP based Os  
Modular Matrix Solution, based on embedded low latency ASIO technology.

### *Core 1 Features:*

#### **I/O Format:**

Analog (24bit/44.1/48/88.2/96/(178.4/192kHz under development),  
Adat  
MADI  
Tdif  
AES/EBU  
IEEE 1394 mLAN (under development)  
Other Formats on demand

#### **Latency:**

between below 3 ms and 8 ms (I/O depended)

#### **IN/OUT:**

up to 128 channels (64 In 64 Out) per unit

#### **Unit chaining:**

several units can be chained to form an audio network  
with MADI technology (token Ring)  
several units can be chained to form an audio network  
with firewire technology (under development)

#### **Channel Delay:**

seperately configurable up to 3 Seconds  
per Channel (for all Channels)

#### **Dynamics:**

1 Compressor/Limiter or Noise Gate/Expander switchable  
per in and outputchannel  
Dynamics Graph for Compressor or Noisegate

#### **Metering:**

Metering in every Input,Channel,Busand Output, reduction Metering  
all of the above: simultaneously per Channel

#### **Routing Mixing Capabilities per channel:**

##### **Every line of Input and Output contains:**

Gain (-126 to +24 dB),  
Delay (up to 3 seconds per Channel, for all 128 Channels),  
Four band configurable full parametric EQ's:  
Direct form I realisation of four second order cascaded IIR filter sections,  
Frequency Range 20 Hz - 20 kHz, Q-1-50 (select. types-Peak, Hi pass,  
Low pass, Hi shelf, Low shelf, Notch, Band pass)

#### **Dynamic section:**

Compressor/Limiter or Noise Gate/Expander (switchable simultaneously per Channel),  
Solo, Mute, Phase Invert and back Loop from all output busses.  
Controllable via Ethernet (TCP/IP)  
Customized solution on demand!



### *Core 1 processing abilities:*

- Configurable Autosave
- Single ethernet Access
- simple User-management
- fully standalone operation
- fully standalone startup
- fully remotable
- snapshotbased host system
- snapshot switching times for audio < 30 ms max
- unit contains its I/O in 4 HE case or in one or more 1 or 2 HE extra 19" Cases (Adat optical c.)
- possibility of input logging
- possibility of Auto Snapshot Backup
- extendable to 128 ch (64 CH in/out) 48 kHz or 48 CH (24 Ch in/out) 96 kHz
- 192 Khz options on demand