Product overview
Tech specs Dmatrixx
(January 2004 - 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

matrixx

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

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!

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