

NetControl System Overview

1 Overview:

NetControl is a universal Remote-Software for DFM Products supporting different devices. The software has two modes for OEM-Manufacturers and end user.

NetControl - DFMAudio		- 0 ×	
<u>File Iree System Help</u>			
Network ♥ 🚖 Interfaces	DeviceView Devid Dev3 Dev3 Dev3 Dev3 Dev3 Dev3 Dev3 Dev3		
COM8 Network0	main N in1 in2 preets		
	Signaling Dev1 Act. Prst: 0 PresetName	Load	
	0 0 0 0 0 0 12 10 12 12 12 12 12 12 12 12 12 12 12 14 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12		
System	GroupView		
♥ 🚖 Groups	Front Left Right Back Left Right		
Front	main 🚾 iir 2		
- V Devi	18 Gain (dB) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IRDiagram	
- W Dev2			
- 0ev3			
Right			
V Dev4			
V Dev5		Freq (Hz)	
v	Band: 1 III 0 2 III 0 3 III 0 4 III 0 5 III 0 6 0 7 Mode: PEAX V OFF V OFF V OFF V ISHELV V OFF		
▼ EELeft	Gaine 138 0 0 0 0 1 0 1 0 1 0 1 0 1 0 1 0 1 0 1		
Bight			
Right			

2 Key-Features:

- Support for virtual Systems (devices are offline configurable)
 - automatic synchronizing between virtual and real devices
 - storing/loading of virtual systems
 - loading of virtual systems via snapshot
- grouping
 - up to 2 levels
 - Gain, Mute, Delay, IIR-Filter
- Support for different DSP-module types
 - Active Speaker,
 - Loudspeaker Controller,
 - Room Equalizer
 - System amplifier in one System
- Interfaces
 - RS485/Serial Port

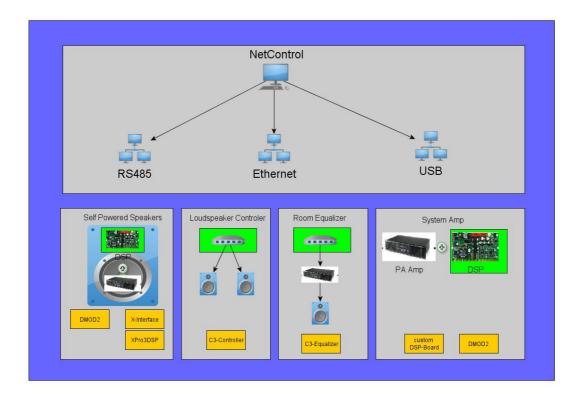
NetControl System Overview V0.2



- up to 30 devices per serial port
- support for up to 10 serial ports
- daisy chaining with price efficient RJ45 cable
- automatic address assignment (no configuration needed)
- Ethernet 10/100 Mbit
- USB
- OEM branding
 - own XML-Bases GUI design
 - \circ Manufacturer branding \rightarrow no control of other manufacturer
 - OEM can create own product names for the same DSP-module (MID12,SUB15 ..)
- DSP functions
 - X-Over up to 48dB (etc. LR-Filters)
 - IIR (Peak, High/Low-pass, Shelving)
 - Compressor / Limiter
 - FIR-Filters
 - Gain, Mute, Phase, Delay
- Libraries
 - Preset-Libraries
 - real Speaker-Libraries (controller)

3 System Overview

NetControl supports different device types and different network interfaces.



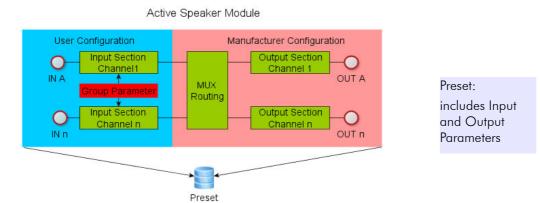


4 Firmware / Device Types

User-Configuration:	User can modify the parameters
Manufacturer-Configuration:	Only Manufacturer can modify the parameters

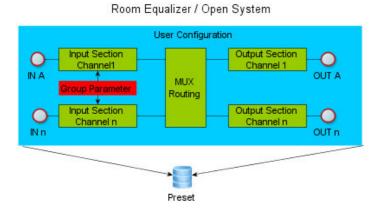
4.1 Active Speaker Module

NetControl (User Features)	Device (User Features)
Loading/Storing presets	Loading presets
Modifying user parameters (Input + Group)	Level Controls
Dumping preset library	



4.2 Room Equalizer / Open System

NetControl (User Features)	Device (User Features)
Loading/Storing presets	Loading/Storing presets
Modifying all parameters (Input + Output +Mux + Group)	Modifying parameters (Input + Output + Mux)
Creating preset libraries	
Dumping preset library	



Preset:

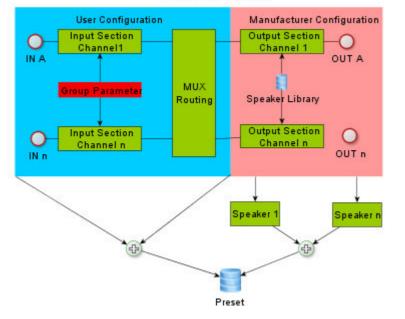
includes Input and Output Parameters



4.3 Loudspeaker Controller

NetControl (User Features)	Device (User Features)
Loading/Storing presets	Loading/Storing presets
Modifying input parameters (Input + Mux + Group)	Modifying Input + Mux parameters
Loading speaker types for each output	Loading speaker types for each output
Creating preset libraries	
Dumping preset library	
Dumping speaker library	

Speaker Controller



Preset:

includes input parameters and speaker type for each output

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