





V 0.3





Last update: October 2013

All software-related descriptions refer to the software V2022. We recommend to update older versions of the system. Small deviations in the description because of software changes are possible. All listed brands and logos are registered trademarks of their respective owners.

Copyright

All rights reserved. Without the the prior written permission of the publisher, no part of this document for any purpose, be reproduced or transmitted, and regardless of any form or by any means, electronic or mechanical, this is happening.

If this publication is made available on media by Ekon GmbH, GmbH Ekon grant permission, copies of the information contained in this file is only for private use and not to download or print for redistribution. No part of this publication may be changed, modified or used for commercial purposes. Ekon is not liable for damages resulting from the use of an illegal modified or altered publication.

CE The devices comply with the relevant guidelines and standards of the EU.

Table of Content

1. Audiomatrix	
1.1 Electrical outle	et
1.2 Software activ	ation
2. Barix Exstreame	r
3. Music menu on t	he myGEKKO Touch
3.1 Zones / Room	s setup
3.2 Assign push-b	uttons
3.3 Switching of t	ne power amplifier
3.4 Create playlist	s14
3.5 Turn music on	and off via display

1. Audiomatrix

1.1 Electrical outlet

You may distribute analogue audio sources to a max. of 8 rooms with the myGEKKO Audiomatrix. The operation of the audio sources is carried out directly via the touch display, push-button or via smart-phones or pads.

An MP3-player, which can be used as source, is integrated into the myGEKKO Touch (Mod. Touch and Slide). The MP3 files may be located on a USB flash drive or on a NAS network drive (see NFS data storage configurations manual). Furthermore, you may play MP3 streams such as internet radio.

Audiomatrix Mono

Used for mono music distribution in max. 8 zones for 8 sources. Two 4 channel matrices need to be cascaded for 8 zones.

O O Input 1	Output 1
() (input 2	Output 2
() (input 3	Output 3
0 0 Input 4	Output 4
+ (0000) + Power -	Power +

Technical data

Input voltage range	12 VDC
Audio input connector	4xStereo Line IN RCA Cinch
Audio output connector	4xMono Line OUT RCA Cinch
Included	power adapter
Dimensions WxHxD	170 x 105 x 50 mm
Art. Nr.	ACC-AMR01 4-channel Audiomatrix ACC-AMR02 8-channel connecting cable

8 channel analogue Audiomatrix stereo BOSE[®] ControlSpace[™] ESP-88

The BOSE ControlSpace ESP-88 Engineered Sound Processor is a flexible, extendable high-end audio signal processor for individually developed sound applications.



Technical data

Input voltage range	85-264 VAC 50/60 Hz
Audio input connector	8xStereo Line IN / microphone
Audio-output connector	8xStereo Line OUT / microphone
Dimensions WxHxD	482 x 88 x 332 mm
Art. Nr.	ACC-AMR10

4/8 channel analogue Audiomatrix RTI AD-4 / AD-8

The AD-4 (AD-8) Audio Distribution System developed by RTI is equipped with 4 (8) analogue audio inputs and outputs and, thanks to the integrated 8-channel-amplifier, it offers enough power for your music.





Technical data

Input voltage range	115VAC, 120W
Audio input connector	4(8)x Stereo Line IN
Audio-output connector	4(8)x Stereo Line OUT
Dimensions WxHxD (AD-4)	482 x 53 x 340mm (without front cover and rack shelves: 430x53x340) 423 x 123 x 275mm
Dimensions WXHXD (AD-8)	432 X 133 X 375mm
Art. Nr.	ACC-AMR20 RTI AD-4 ACC-AMR21 RTI AD-8

Anschlussübersicht Audiomatrix



Connection details Audiomatrix Mono

The Audiomatrix is connected to an RS232 interface. It may be connected to the RIO 29 (Aux 2 RS485/RS232), to a free interface directly on the myGEKKO Touch (COM 1 by default, poss. also to COM2 if no Wago or RIO IO station are connected and the RS485 is currently not assigned) or to the interface distributor USB/quadruple RS232 (USB. COM 1-4) (Art. Nr. ACC-RS201).

Connection via	Interface
RS232	RIO-29
	COM 1
	USB-COM 1-4 with USB interface distributor



Power supply over provided 230VAC wall plug transformer.

CAUTION!

The myGEKKO Touch 'Classic' (5,7" display) has NO line output. You need to use the USB sound adaptor (Art. Nr. ACC-SAD01) for these models.

Cascading of audio matrices

To setup 8 zones you need to use 2 audio matrices of the type ACC-AMR01. They are connected via a custom made cable of the type ACC-AMR02. This cable contains the supply for both matrices. You may now distribute 8 sources to 8 zones. Matrices are delivered as Master and Slave devices. The data connection to the myGEKKO Touch is established via the Master.



Bose (BOSE ControlSpace ESP-88 Engineered Sound Processor) as well as RTI (AD-8) offer audio matrices already equipped with 8 zones.

Connection of the BOSE Audiomatrix ESP88

The connection of the BOSE Audiomatrix of the type ESP88 is equivalent to the principle of connecting the Mono Audiomatrix.

Further information and the configuration file of the ESP88 are available on request.

Connection via	Interface
	RIO-29
RS232	COM 1
	USB-COM 1-4 with USB interface distributor

Connection details Audiomatrix RTI AD-4

The RTI AD-4 as well as the RTI AD-8 are connected to a RS232 interface. For this purpose, the interface may be connected to the Rio 29, directly to the myGEKKO Touch/Slide (to COM 1 by default, eventually also to COM 2, if the RS485 connection is currently not assigned) or to the interface distributor USB/quadruple RS232 (USB.COM 1-4) (Art. Nr. ACC-RS201).

Anschluss über	Schnittstelle
RS232	RIO-29
	COM 1
	USB-COM 1-4 with USB interface distributor



Power supply over provided 230VAC wall plug transformer.

The myGEKKO Touch 'Classic' (5,7" display) has NO line

output. You need to use the USB sound adaptor (Art. Nr. ACC-SAD01) for these models.

1.2 Software activation

Activate the Audiomatrix

- 1. Log in as configurator.
- 2. Change to system menu 🏤 -> Music -> Music Mixer 📝
- 3. Select the port to which the Audiomatrix is connected (e.g. directly to the Touch COM port 1) and select 'Standard' for the Mono Audiomatrix or 'Bose' for the BOSE ESP88 Audiomatrix.

Assigning sources

- 1. Change to system menu 🏤 -> Music -> Music Mixer 📝
- 2. Define the sources you have connected. You can choose between 'Player' and 'External source' in this section. 'Player' means that the integrated MP3 player of the myGEKKO Touch is connected to this input. As shown in the previous connection scheme, the myGEKKO player is usually connected to the first input. Set all other inputs to 'External source' and define a name.
- 3. Use a 4 channel matrix so you can leave 'player' as source for the inputs 5-8.

CAUTION!

The bar on top of the screen 'Multiroom' must be GREEN. A RED bar means that a communication error on the data connection has occurred. Check the wiring and the interface assignments.

Watthoon		No. of Contract of
USB.COM 4		STANDARD
Player	-	
Extern-Source	od	
Player		
	USB COM 4 Player Extern-Source Player Player Player Player Player Player Player	USB.COM 4 Player od Extern-Source od Player Player Player Player Player Player Player

Audiomatrix interface activation

	Multiroom	Musicmoo
Musicmixer	USB.COM 4	STANDARD
input 1	Extern-Source	Apple Airport Extrem
Input 2	Extern-Source	Home cinema
Input 3	Extern Source	TV
input 4	Player	
Input 5	Player	
Input 6	Player	
Input 7	Playor	
and a second second	Player	

Assigning sources

2. Barix Exstreamer

The operation of the Barix is carried out via the myGEKKO Touch through the touch display, push-button or via smartphones and pads. MP3s on a USB Stick or NAS hard drive (See manual NFS data storage) can be used as sources. You can play also MP3 streams like Internet radio.

The myGEKKO, the Barix player and possibly other devices (eg routers) must be in the same. It is important that in this network no DHCP server is running.



Technical data	
supported audio format	MP3 up to 320 kBit with fixed or variable bit rate
Network connection	RJ45 LAN 10/100Mbit TCP/IP
Audio connector	- Stereo RCA, 3.5 mm jack plug (4Vpp max), - 2x25W (RMS@8OHM) speaker connector (short circuit overload protection) - S/PDIF out (optical)
Input voltage range	9 to 30VDC / 12 to 24VAC (power supply included)
Dimensions WxHxD	108 x 38 x 78,7 mm
Art. Nr.	ACC-LPL02

The 'Standard Exstreamer Firmware' has to be installed on the Barix Exstreamer. The following Barix configurations must be set:

	THINK FURT		HEDERSTR E HEDERSTR E HEDERSTR E HEDERSTR HEDERSTR HEDERSTR HEDERSTR HEDERSTR	
SULVERS SUSAND	AND BAYAD	6081365 BD	ante ascallari	Help
Server	Change to CIPSGamba			Here you can edjust the way Exstrement will get its stream. Server settings
Junio Contra Con	0 23erver (autoberect)			Press the button to change to the other application.
Server IP Address Server Port Server Path	8888	50		The Exstreamer basically supports 5 different operating modes (For a detailed description see the "Advanced user sector"). Mode Mode & Exstreamer as Network MP3 player with the zServer (zServer will be detected automatically). Mode 1. Exstreamer as Network MP3 player with Server IP address configurable (zServer IP address can be defined
Playlist List Path	/pleylist.html	i		morcany) <u>Monte 2</u> Exstremener as Network MP3 player with standard web server <u>Mode 2</u> Exstremener as a Streaming Puller <u>Mode 3</u> Exstremener as a Streaming Receiver
Receiver	activity many			
TCP Streaming Listen Port	0			Mode 8 2Server (autodetect) In Mode 0 the Explorement works as a Network MP3 Player using the zServer. It will automatically detect the zServer. To work correctly the following settings are needed.
TCP Priority Streaming Listen Port	0			Server IP Address Aburn 0.0.0.0 Server Port Alexys 8888
UDP Priority Streaming Listen Port	0			Server Path Aburyi set to '7' in this mode
Priority Message Minimum Volume	25 💉 %			Playhat Last Path. Always spacehilt brief
RTP Receive Part	0			Mode 1 2Server (fix)
RTP Transmit Part	0			to manually configure the P address of the target zServer. This Mode is used running multiple zServers on your network
General				Server IP Address Input the 4 values of the IP address of the host when advrser is surrang. Server Part Advances 2000
TCP-UDP Start Threshold	60000			Server Path. Always set to "7" as the mode.

NEI WORE	STREAMING	<u>AUDIO</u>	<u>PLA VLISI</u>	CONTROL	<u>SFRIAL</u>	SECURITY
UDP command po	rt 12301					
TCP command po	rt 12302					
Web server port	0					
IR Source	💿 ir s	erial Dongle 🔘	IR IN			
IR Gateway	0	.00	.0.	0		
Apply Ca	ancel					
Command passth	rough 💿 Nor	mal operation 🤇	Pass commands th	uru to server without	executing them	

To set the configurations open a web browser and type the IP address of the Barix player into the address line.

Log in the myGEKKO Touch as configurator.

- 1. Change to system menu 🤣 -> Netzwork 🕵 -> myGEKKO Player
- 2. Type the Mac address of the Barix player into the '1.Mac' entry field and a free IP into the 'IP' entry field.
- 3. Tap the 'None' button to activate the player and close the Barix player.
- 4. Select the green button next to IP and check the DHCP and Status values. They have to show the value 1.

If there is no green button displayed next to IP or if there are no values listed for status and/or DHCP you need to restart the player.



If one wants to configure 2 or more Barix players with the myGEKKO the steps from typing in of the Mac and IP addresses have to be repeated for any Barix Player.

3. Music menu on the myGEKKO Touch

3.1 Zones / Rooms setup

- 1. Change to system menu 🅎 -> Music 🗾
- 2. Tap the first of the 8 green bars on the list and change to the IO Configuration 🥒 . The bars represent the 8 rooms / zones.

Caution At the Audiomatrix zone number 1 corresponds to output number 1.

- 3. Tap the title bar and enter a name for the room, e.g. kitchen. 3.
- 4. As sources select 'Music Mixer' for the Audiomatrix, 'myPlayer' for the intergrated myGEKKO Touch MP3 player and 'NetPlayer' for the Barix Exstreamer.

3.2 Assign push-buttons

You may assign a maximum of 10 push-buttons to each zone / room.

With 4 separate push-buttons for the following function:

Push-button ON/+	Push shortly = Zone ON, Push shortly = Volume up
Push-button OFF/-	Push shortly = Zone volume down, Push & hold = OFF
Push-button Forwards	Push shortly = Next track, Push & hold = Next playlist
Push-button Backwards	Push shortly = Previous track, Push & hold = Previous

If the same push-button is used for push-button ON/+ and pushbutton OFF/-:

Push shortly = ON, Push shortly = VOLUME UP,

Push shortly then push & hold = Volume down, Push & hold = OFF.

The push-buttons 1-8 can be used to choose directly between playlists. The setup and selection of the playlist has to be made on the parameterisation level *O*. The playlists must have been created already (see next section).

3.3 Switching of the power amplifier

- 1. Each zone / room has a digital output which can be used to switch a power amplifier. The output is switched ON if the zone is ON and is off if the zone is OFF.
- 2. HINT: If more zones are in use the outputs can be connected via a logic and the power amplifier switches off automatically when all zones are switched OFF.

	Kite	hen		10-Configure	
Source	Musikmixor				
Button On/+	1.1.DIT	Off	Button Off/-	1.1.Dit	Off
Button next	11.02	Off	Button previous	110/2	Off
Button 1	DI	of	Button 2	D	on
Button 3	DI	Off	Button 4	DI	Off
Button 5	DI	Off	Button 6	DI	Off
Button 7	DI	Off	Button 8	DI	Off
Output	11.DO1	Off			

Zone configuration and push-button assignment

3.4 Create playlists

- 1. Change to the 'Music' section on the start screen.
- 2. Tap '>>' (1) to go to the playlist overview section. You may create a maximum of 16 playlists.
- 3. Select the first free playlist (2).
- Enter a name for the playlist in the 'Album' section. On the right-hand side you can choose where (4) the music for the playlist is to be taken from:

External source

Select your connected sources. Now, if a room / zone plays this playlist the myGEKKO changes automatically to this external source.

Playlist

Playlist is mainly used for MP3 streams, i.e. for internet radio. The MP3s are played by the MP3 player integrated in the myGEKKO Touch.

Auto Search

With Auto Search you can play MP3s directly from a data storage device (USB flash drive or NAS). Enter the path to where the music is stored. myGEKKO generates automatically a playlists on the basis of the files contained in the folder which gets updated automatically. The MP3s are played by the MP3 player integrated in the myGEKKO Touch.



Overview Music control



Menu Playlists



HINT!

Some internet radio stations are already predefined in the second playlist. Enter a name for this playlist in the 'Album' section and use the stations as template for the setup of your own desired stations.

Playlist with external source

Exemplary playlists

The following playlists were created in the example:

Playlist USB = 'AUTO SEARCH' with source from 'MSTICK1' from the 'music' folder Playlist Internet radio = 'PLAYLIST' with a list of internet radio stations Playlist AirportExpress = 'EXTERNAL SOURCE' -> AirportExpress Playlist Home cinema = 'EXTERNAL SOURCE' -> Home cinema Playlist TV = 'EXTERNAL SOURCE' -> TV device



Overview playlists



Playlist Internet radio

3.5 Turn music on and off via display

- 1. Tap the desired playlist.
- 2. Choose the desired rooms via the clef. Adjust the volume with +/-
- 3. You can change between the playlists with the fast-select keys (1) 1,2,3, 4



For further information on how to operate the music please consult the Apps general users manual on *www.my-gekko.com*.



www.my-gekko.com



A first class product of Europe!

The result of a close collaboration betwee Italy, Switzerland and Germany