

MODUS Lite

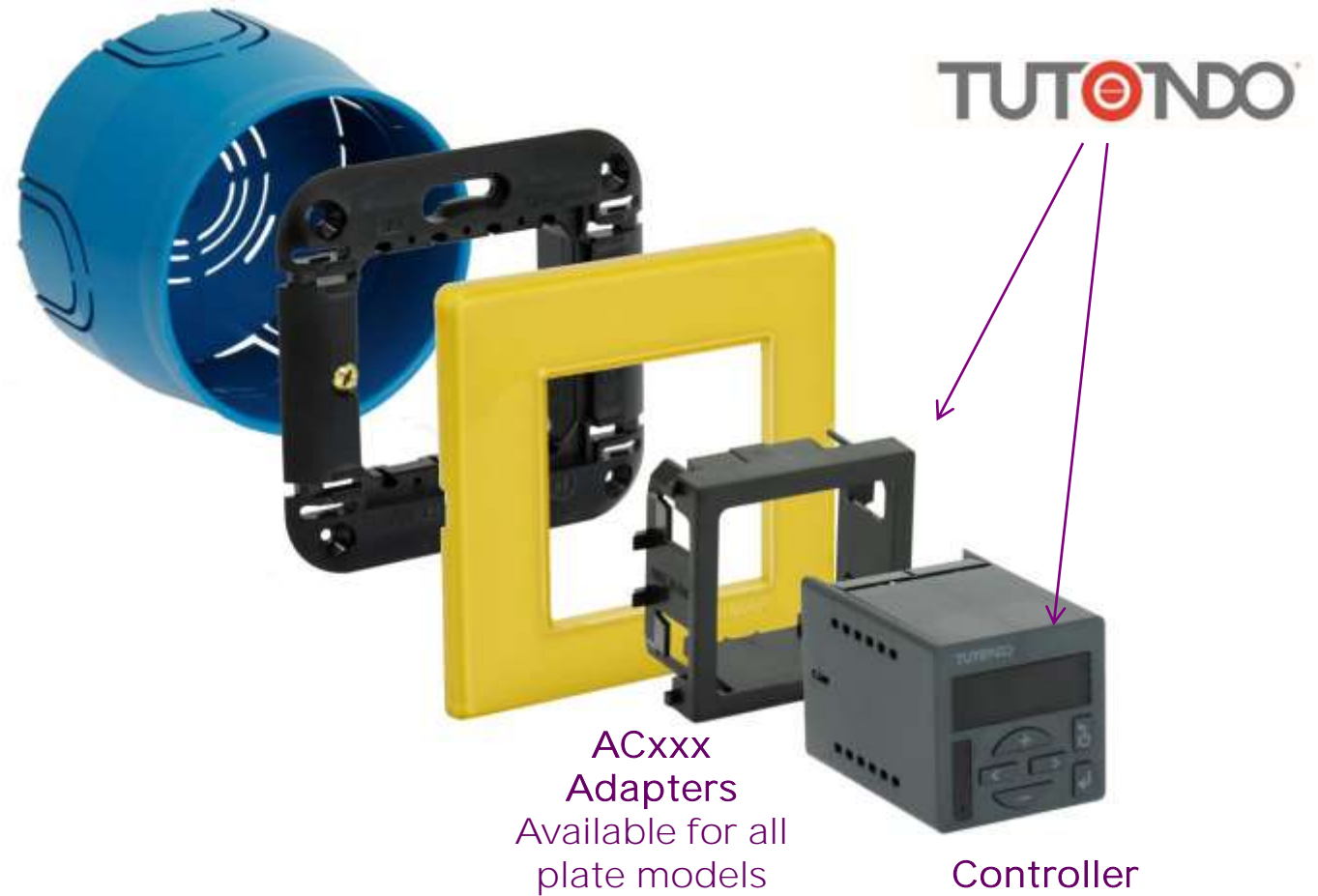
AUDIO CONTROL HI FI



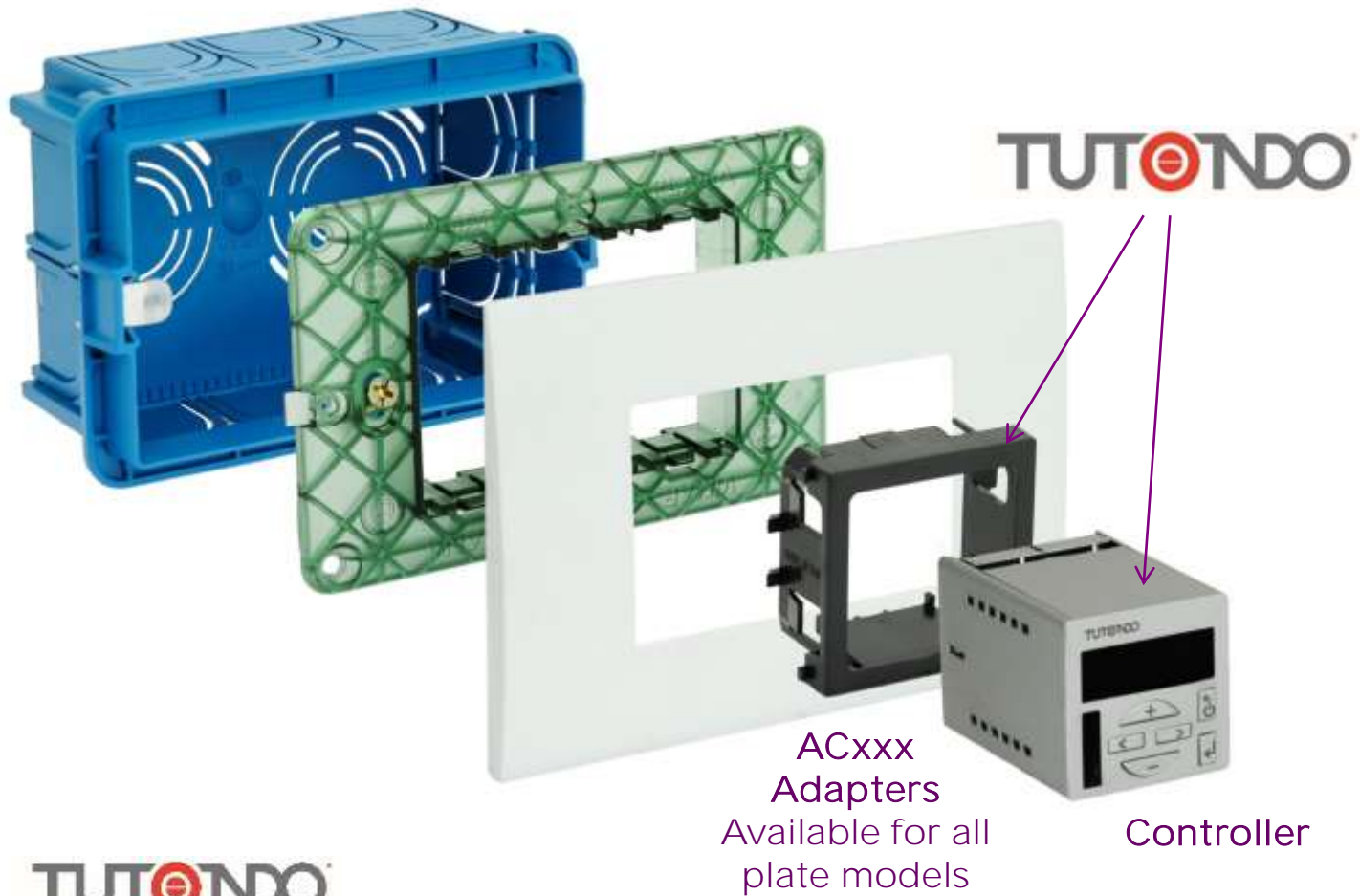
Villas
Apartments
Homes
Offices



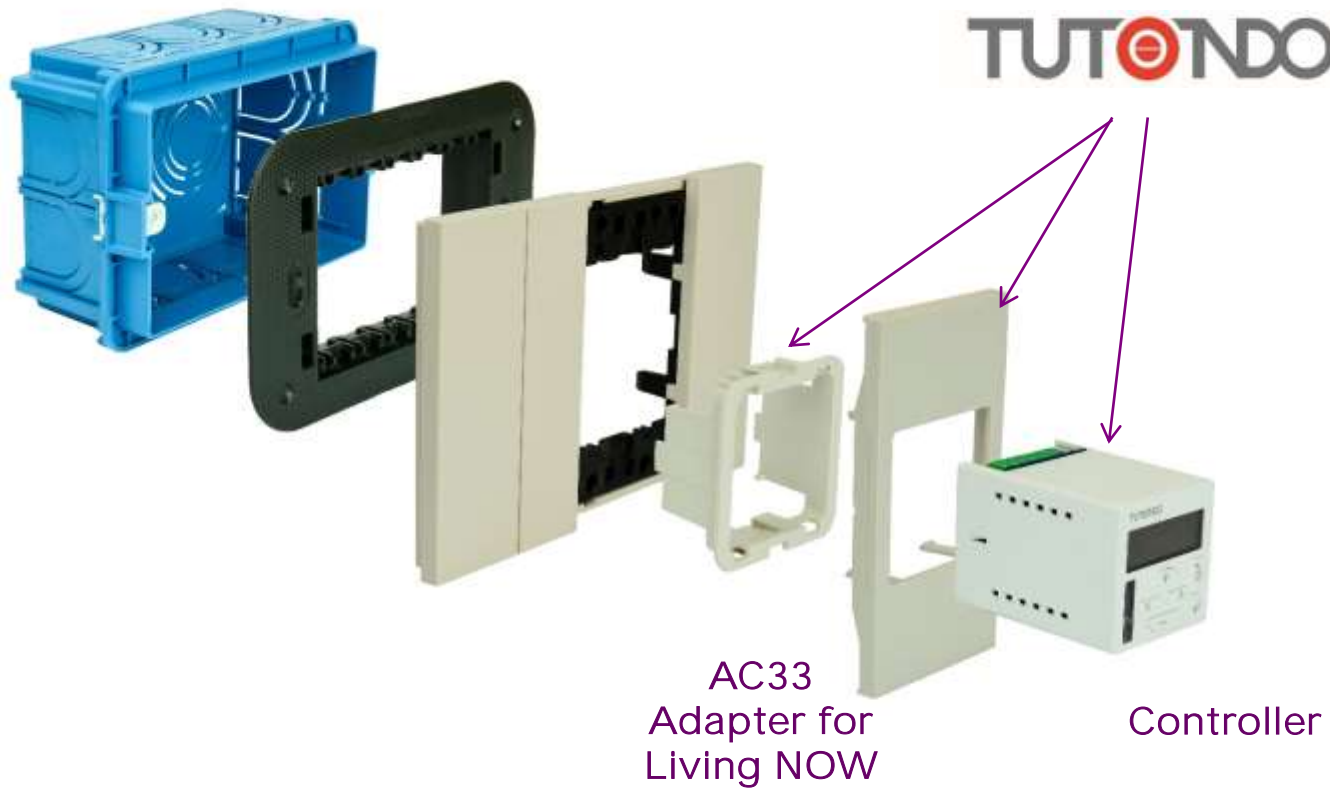
Adapters for all civil series
ON ROUND BOX (EUROPEAN SIZE)



Adapters for all civil series
ON 3 MODULES BOX

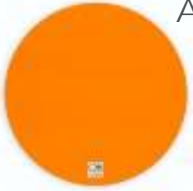


Adapters for Living NOW ON 3 MODULES BOX





IN-WALL
ACTIVE SPEAKERS



MODUS Lite

AUDIO CONTROL HI FI

MODUS Lite

AUDIO CONTROL HI FI



TUTONDO®



MODUS Lite

AUDIO CONTROL HI FI



TUTONDO®

MODUSLite

AUDIO CONTROL HI FI



- Bidirectional Bluetooth 5.0 (*model BL*)
- 3 Input sources.
- Graphic OLED display
- IR receiver for RC3MZ remote control.
- Sensitivity input from 0,42 to 4,2Vrms (12Vpp).

MODUSLite

AUDIO CONTROL HI FI



- Treble and Bass tone adjustment. Loudness eq.
- Stereo-Mono mode (L+R)
- 2 Modes of operation :
 - «Home»: free Bluetooth connection
 - «Hotel»: secure Bluetooth connection

MODUSLite

AUDIO CONTROL HI FI



- "EXT Control" connector for external expansions, Add-on type, eg: USBJ71 player or DAB71 Radio receiver
- 1 stereo 12Vpp output for Active speakers
- Solid state switch to power up to 20 active speakers (530, 508, 503)
→ up to 300W music power directly connectable

MODUSLite

AUDIO CONTROL HI FI



Versions

MZ3532BL

Audio control with Bluetooth and 3 Input sources.
Or 2 Input sources + 1 Add-on like USB71 mp3 player or DAB71 radio tuner.

MZ3532L

Audio control, 3 Input sources.
Or 2 Input sources + 1 Add-on like USB71 mp3 player or DAB71 radio tuner.

MODUS Lite

AUDIO CONTROL HI FI

Overview :

IR Receiver





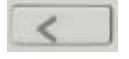



Integrated Bluetooth 5.0

Graphic OLED display

User friendly keyboard

Key function MZ3532

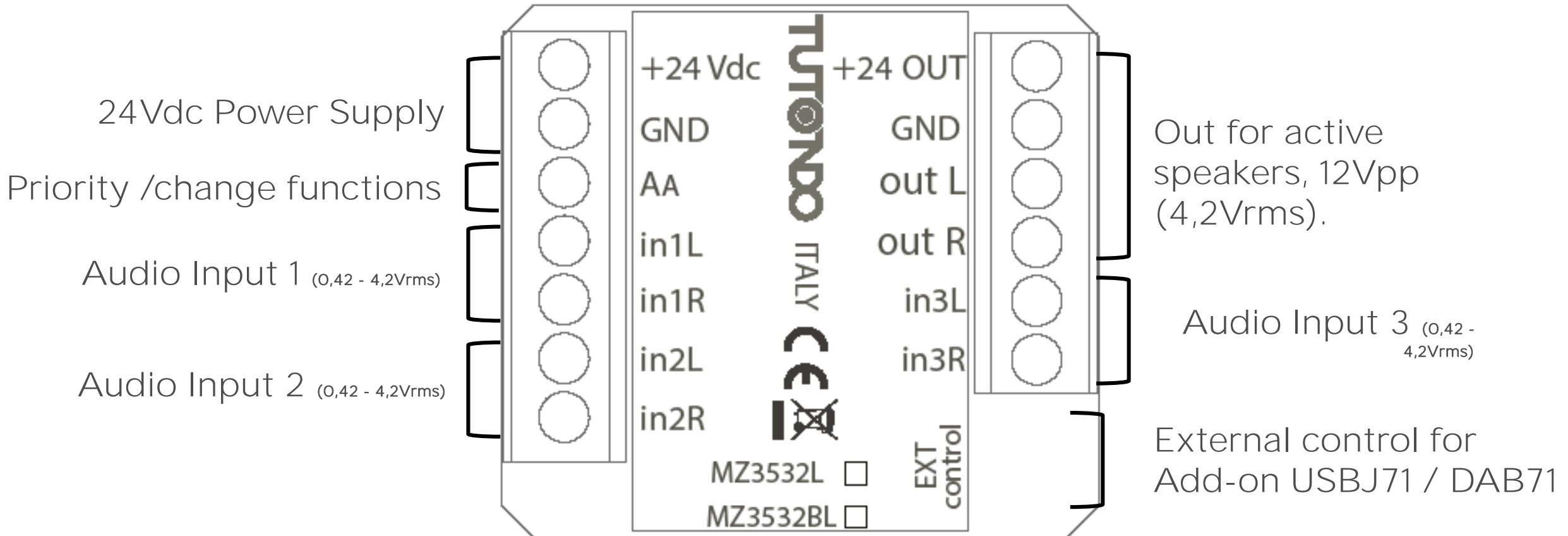
	Play mode		Navigation Menu		Change parameters
	Single press	Long press	Single press	Long press	Single press
	Mute / Unmute	Off	Previous menu	Exit all menus	Cancel
	Power on, Entry changes functions / menus	Direct menu entry	Enter submenu / parameter page		Confirm value
 	Fine volume change	Volume change	Previous / next menu		On edit field: change number or letter
	Previous source		In changefunctions with icons ◀▶ : function -, +		On edit field: shift
	Next source				On multiple choice: parameter change

MODUSLite

AUDIO CONTROL HI FI

Connections side :

MZ3532L
MZ3532BL

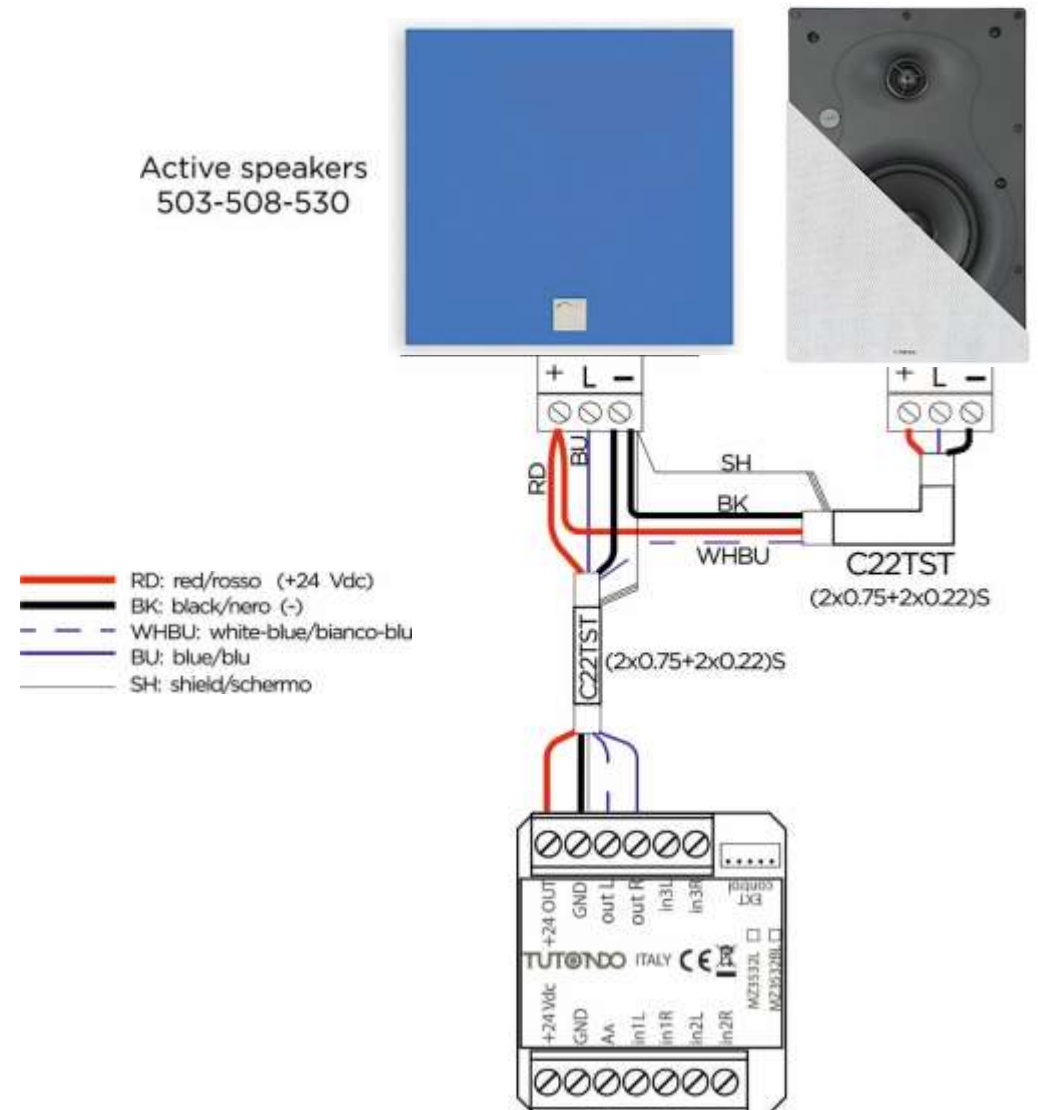


Tutondo Active Amplified Loudspeakers

MODUS Modules.

Stereo example : MZ3532BL, MZ3532L
active speaker cable C22TST

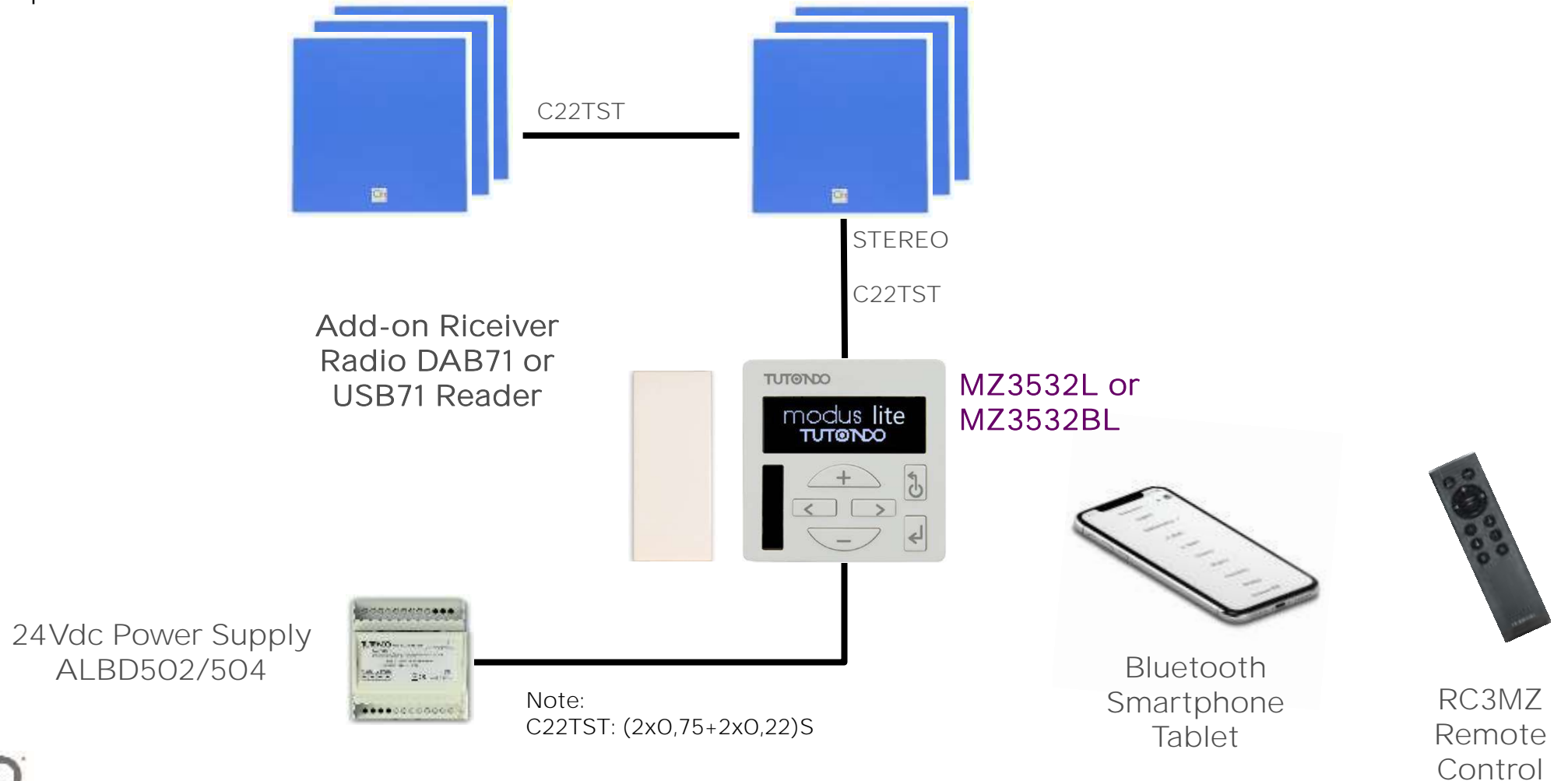
Advantage :
control up to 20 speakers for MODUS Lite



Modus Lite unit with Add-on local Radio DAB71 or USB71 reader.

Application of the DAB71 Radio accessory or USB71 mp3 player to the Modus Lite MZ3532BL or MZ3532L in stereo configuration, with amplified speakers.

The connection of the DAB71 or USB71 takes place with the supplied cable, through simple direct insertion. This input will be present in the menu of the MZ3532 Command.



Accessories, Add-on, on “expansion connector”:

USBJ71:

USB Mp3 player
and Minijack input 3,5mm



DAB71:

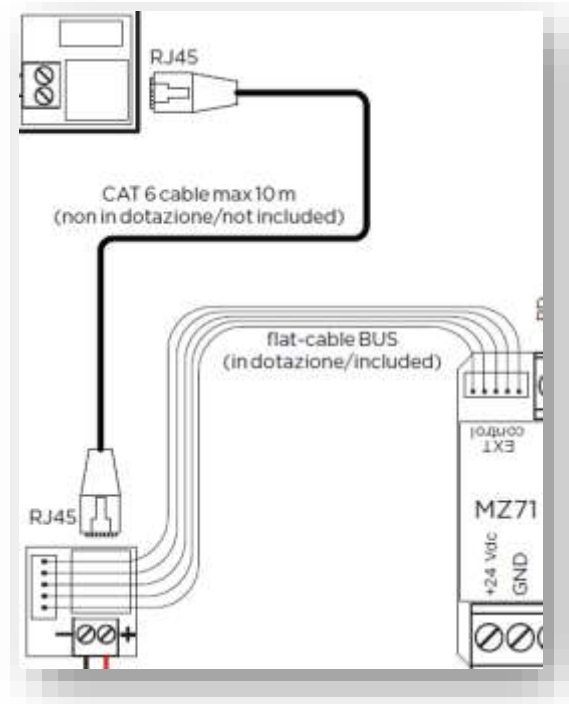
DAB radio tuner.



Remote connection devices, accessories up to 10m (via shielded CAT6):

CRC71

(for USBJ71 and PINJ71)



RDAB71

(kit radio DAB remote)



Accessory



RC3MZ:

Infrared remote control

Source control

- Scan = sequential source change
- → = first right function change
- ← = first left function change
- +, - = volume change
- Esc/off = mute / off
- OK = entry change functions or menu

Modus Lite, system example with 3 inputs.

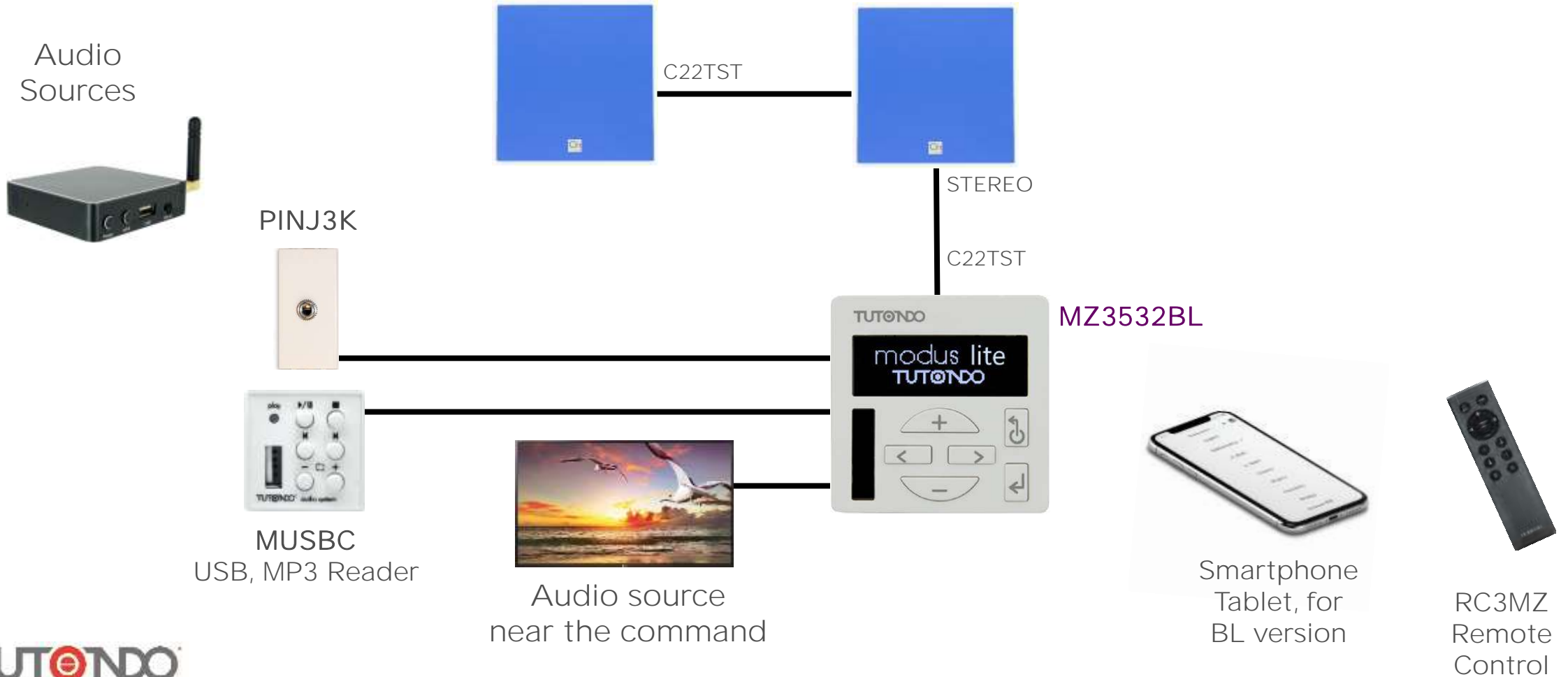
Application module MZ3532L or BL with 3 inputs in stereo configuration, with Active speakers, amplified.

Input 1: PINJ3K, audio source on jack socket 3.5 mm, (4,2V rms, 12Vpp).

Input 2: MUSBC, USB mp3 player, (4,2Vrms, 12Vpp).

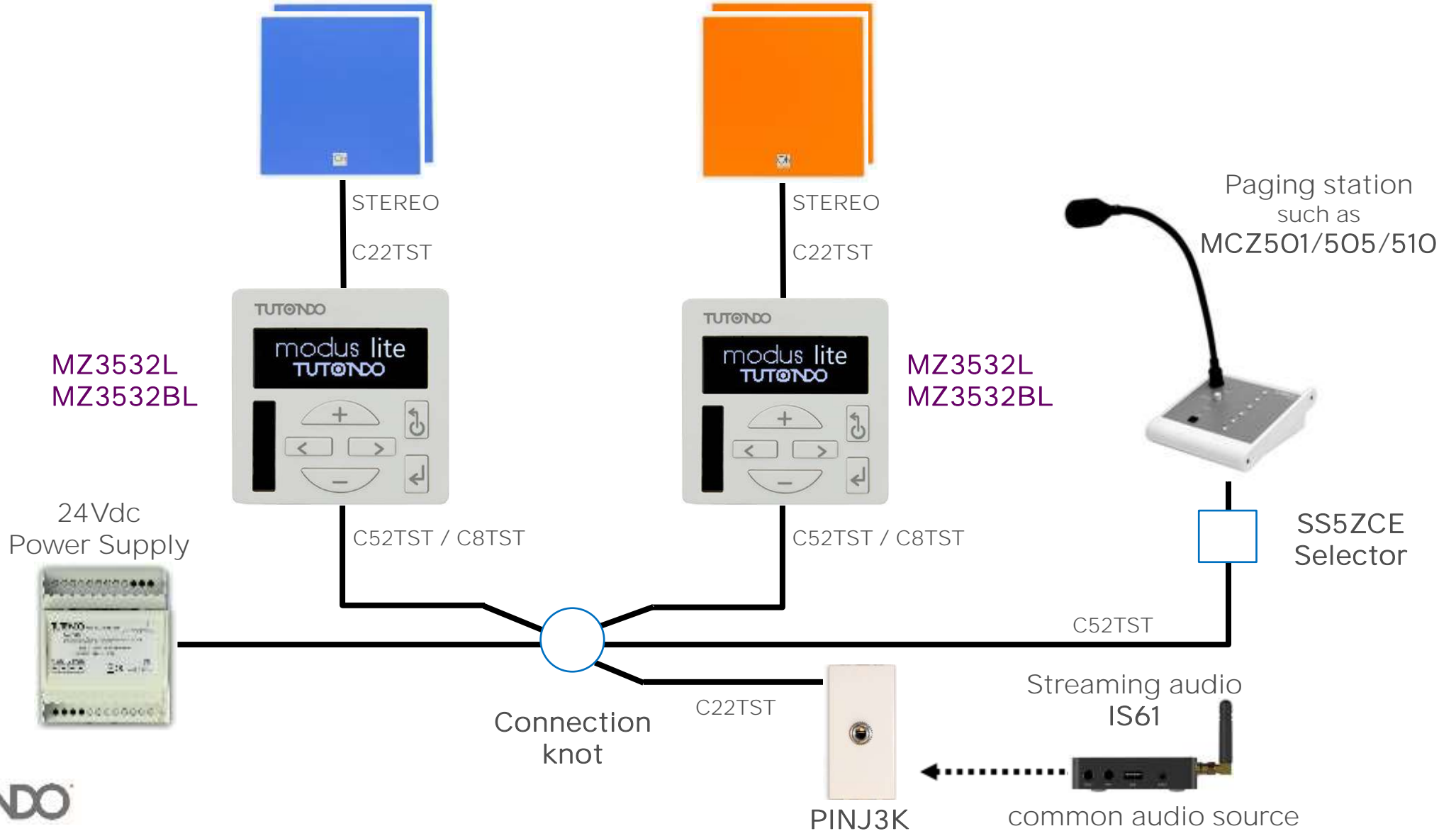
Input 3: Sound source, AUX sensitivity (420 mV rms).

The model MZ3532BL is equipped with Bluetooth receiver



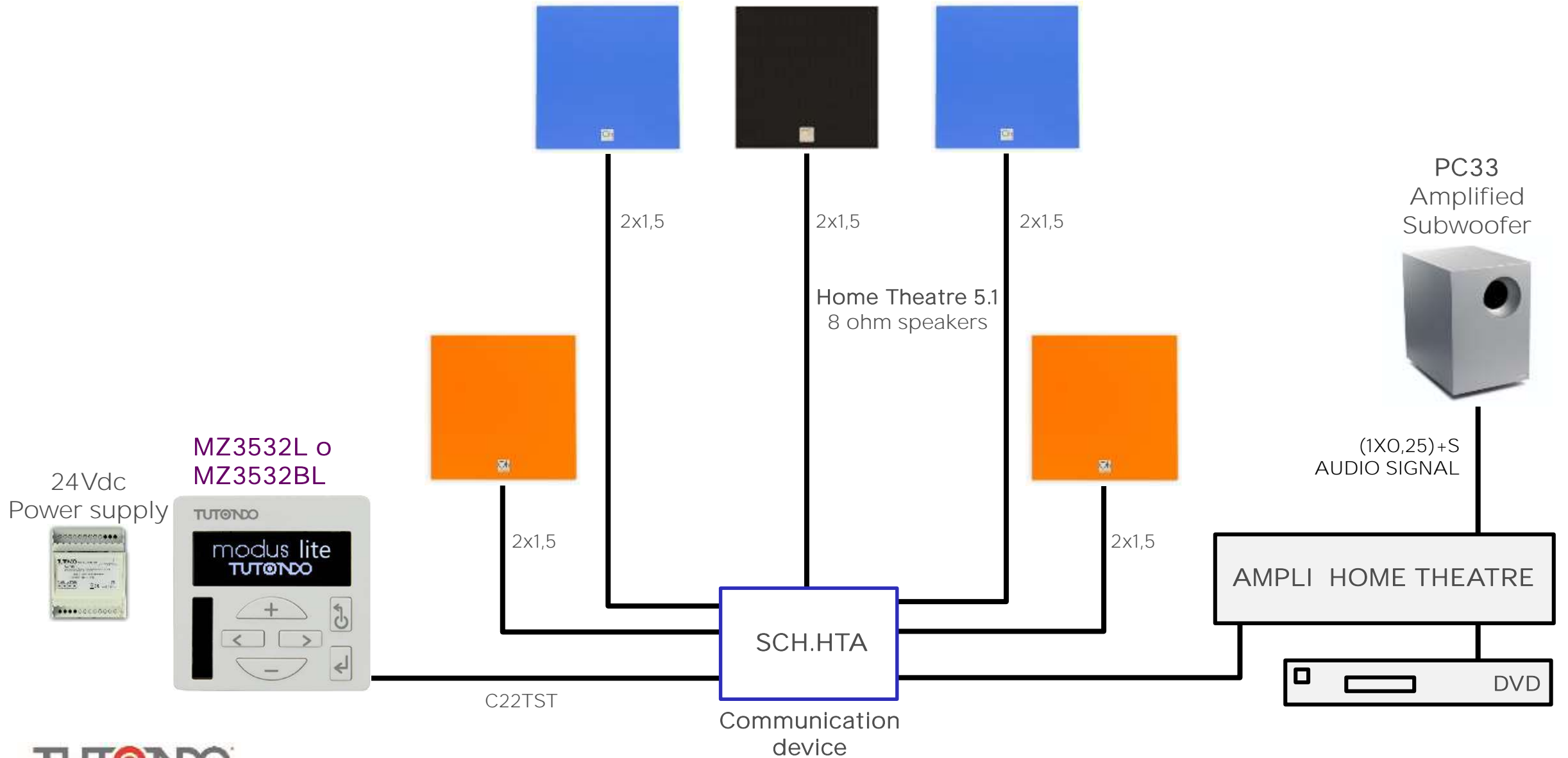
Modus Lite, system example

Connection diagram in stand alone mode with common source and possibility of sending microphone messages with table microphone base (MCZ501 / 505/510).



Connection with card SCH.HTA

Application of a module MZ3532L or BL, with SCH.HTA board



RD2502

Multiroom control unit with 2 stereo audio sources.



- Slim Line
- 2 stereo RCA inputs with sensitivity control
- 2 sockets for STIF function change devices
- 1 Active Microphone input (with priority)
- 1 Line output (to zone controls)
- 1 230Vac servo-assisted socket
- Built-in 24Vdc power supply for up to 20 active speakers (set at 10W)
- Extractable "Fast" pressure clamps for quick connection.

RD2502

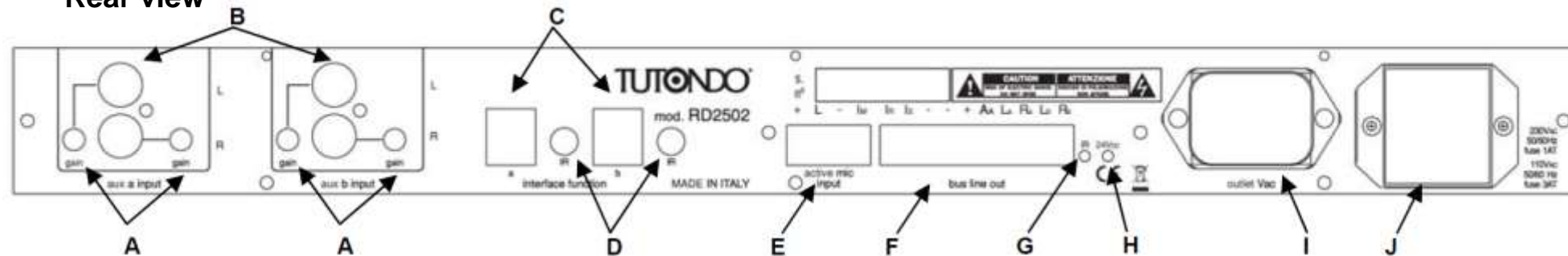
Wiring

Frontal view



General switch

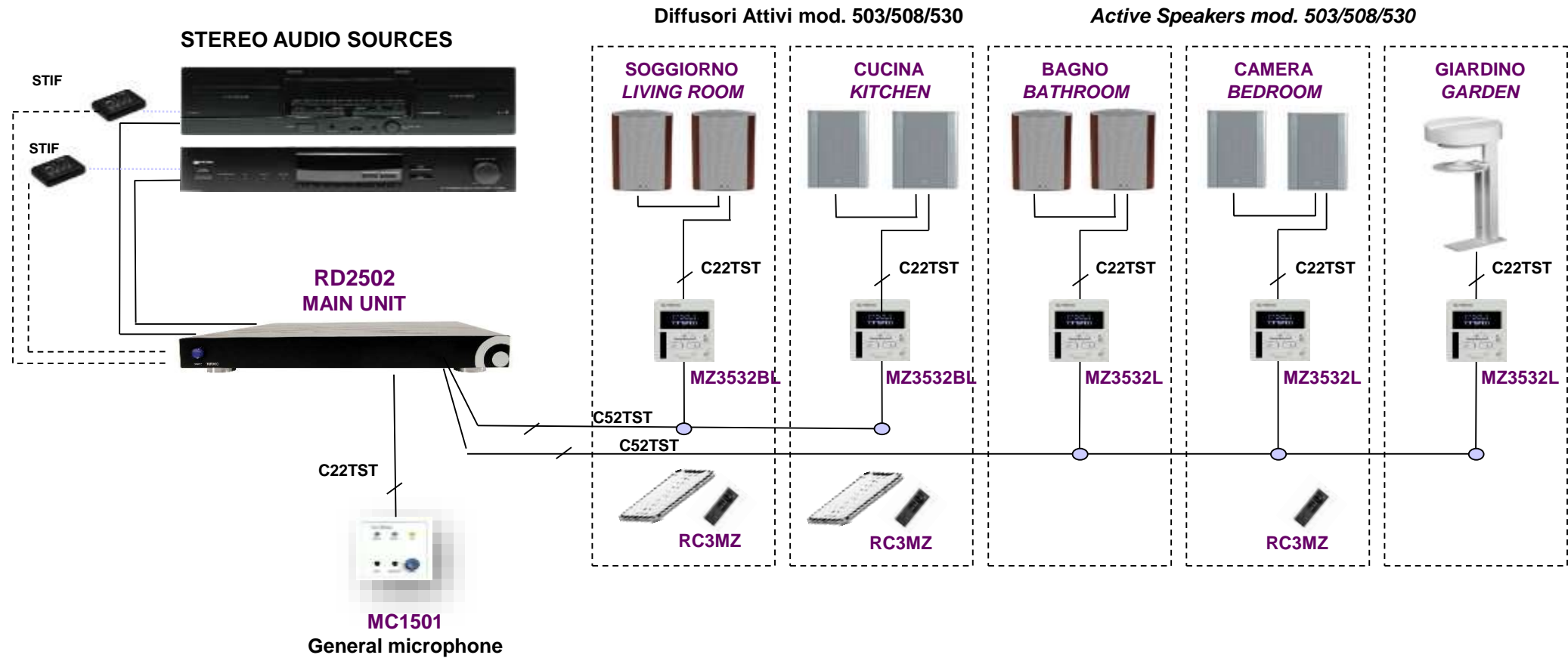
Rear view

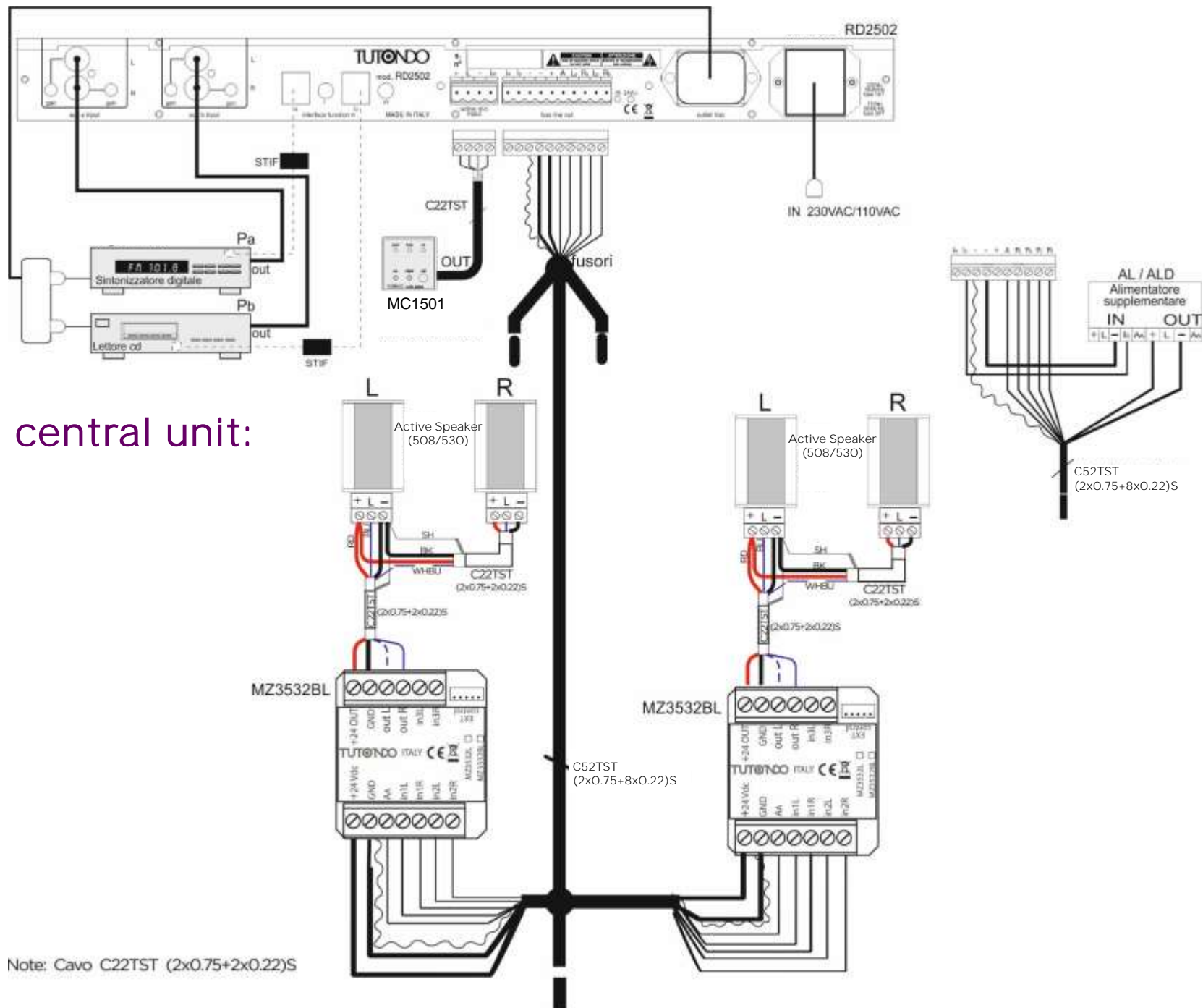


- A.** AUX inputs sensitivity adjustment
- B.** AUX audio inputs for CD, Hard disk players, MP3 readers, Tuners, SAT, etc.
- C.** Plugs for optional function change devices SUF or TIF
- D.** 3,5mm Jacks plug for pass-through IR emitters (sound sources function change)
- E.** Input for active microphone or active paging station (MC1501, MC500, MC501, MCZ501, etc.)

- F.** Bus output for control units connection;
- G.** Monitor Led for IR activity: the Led is on when IR signals are present in the IR bus
- H.** Monitor Led for 24Vdc presence
- I.** Switched mains plug 110/230Vac for the sound source supply
- J.** Mains socket 110/230Vac

MODUS Lite with RD2502 central unit





MODUS Lite with RD2502 central unit:
connections

Note: Cavo C22TST (2x0.75+2x0.22)S

Sistema
MULTIROOM
**MODUS
PRO**



Villas
Apartments
Homes

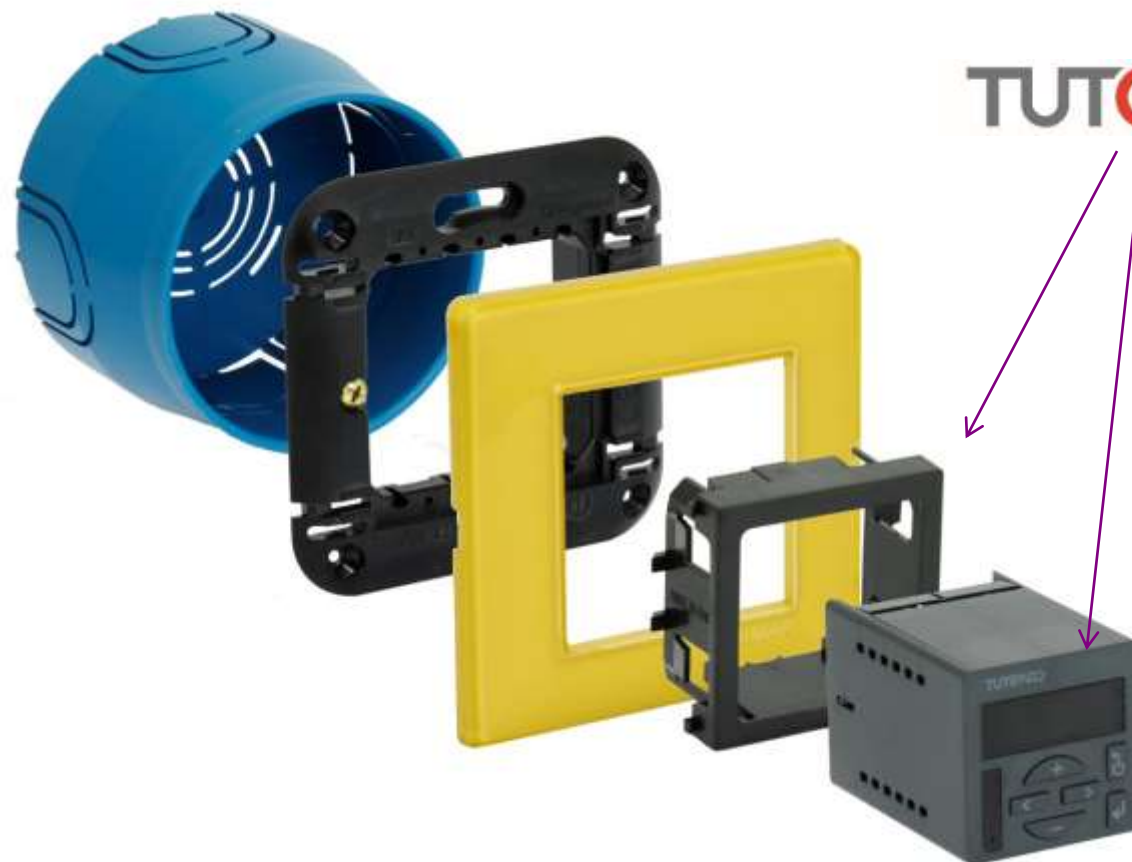


MODUS

MODUS

PERSONAL AUDIO HI FI

Adapters for all civil series
ON ROUND BOX (EUROPEAN SIZE)

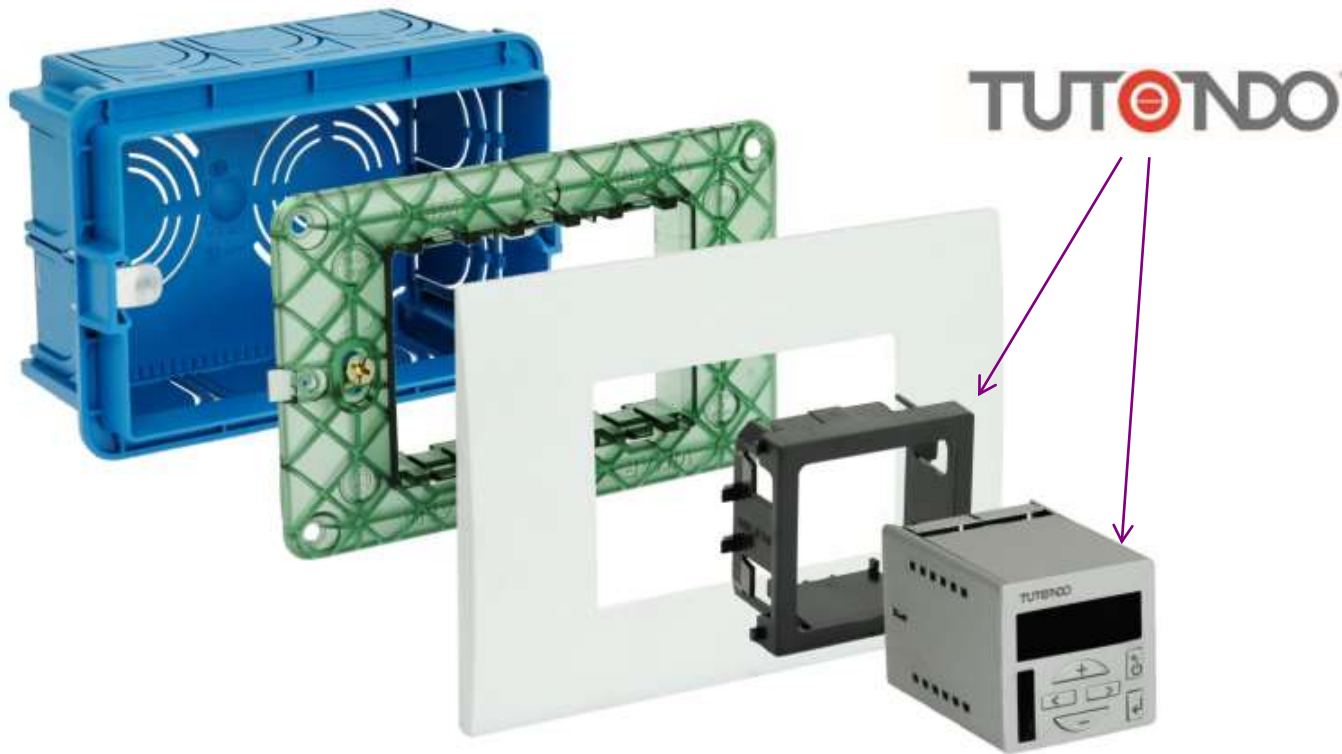


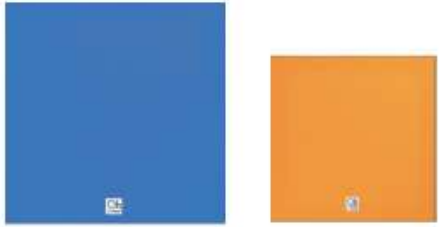
MODUS

MODUS

PERSONAL AUDIO HI FI

Adapters for all civil series
ON 3 MODULES BOX





IN-WALL
SPEAKERS



MULTIROOM
System
MODUS



MODUS
PERSONAL AUDIO HI FI

MULTIROOM
System

MODUS



TUTONDO®

MODUS

PERSONAL AUDIO HI FI



TUTONDO®

MODUS

MODUS

PERSONAL AUDIO HI FI



- Bidirectional Bluetooth, 5.0
- FM Radio Tuner with RDS
- MEMS-type digital microphone for general or single zone calls
- Graphic OLED display with proximity sensor
- Infrared Receiver
- Internal clock (72h maintenance without current)

MODUS

MODUS

PERSONAL AUDIO HI FI



- Tone adjustment, loudness function, stereo-mono (L + R)
- DSP → Audio effects such as 3D Spatialization, SuperBass, etc.
- 2 Modes of operation:
 - - «Home»: free Bluetooth connection and possibility to store FM stations
 - - «Hotel»: protected Bluetooth connection, FM memories not accessible.

MODUS

PERSONAL AUDIO HI FI



- CAN Bus digital bus and RS485 compatible present in all versions.
→ Ability to update the firmware via Bus and / or via Bluetooth.
- 2 stereo audio inputs (+ 1 in standalone configuration):
- 1 active input 0.3 - 12Vpp (+1)
- 1 input 0.1 - 1VRMS
- "EXT Control" connector for external expansions (eg USBJ71 mp3 player, DAB71 receiver,...).

MODUS

PERSONAL AUDIO HI FI



- 1 stereo 12Vpp output (up to 2 outputs with BL-BR out) compatible with active speakers, controls and Tutondo control units
- Solid state switch to power up to 20 active speakers (530, 508, 503)
 - up to 300W music power directly connectable
- 2 bidirectional 12Vpp audio channels (can be both inputs and outputs)
 - Sharing Sources (Shared Audio)
 - Full-duplex microphone messages

Alternative configuration:

- Additional input 0.3 - 12 Vpp
- Second 12Vpp output for sub-zone.

MODUS

MODUS

PERSONAL AUDIO HI FI



Versions

MZ71BT

Module with Bluetooth, Radio FM, Microphone.

MZ71T

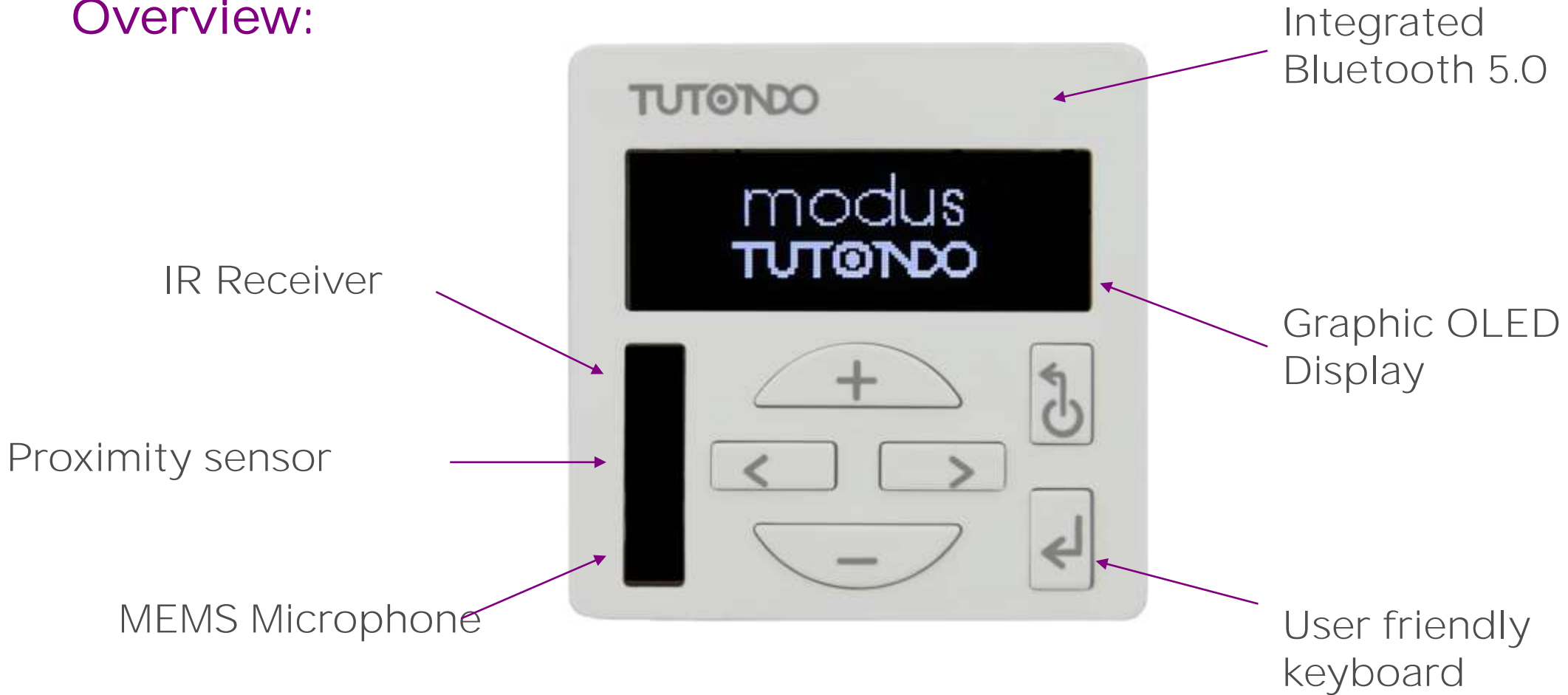
Module with Radio FM, Microphone.

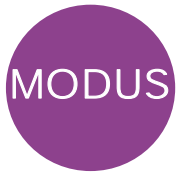
MODUS

MODUS

PERSONAL AUDIO HI FI

Overview:





MODUS

PERSONAL AUDIO HI FI

Connection side:

24Vdc Power Supply

Digital Bus

Alarm Priority Signal

12Vpp Audio Input

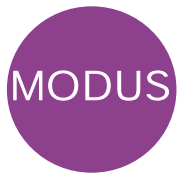
FM Antenna



Expansion connector
(eg. USBJ71)

Outputs to active
speakers

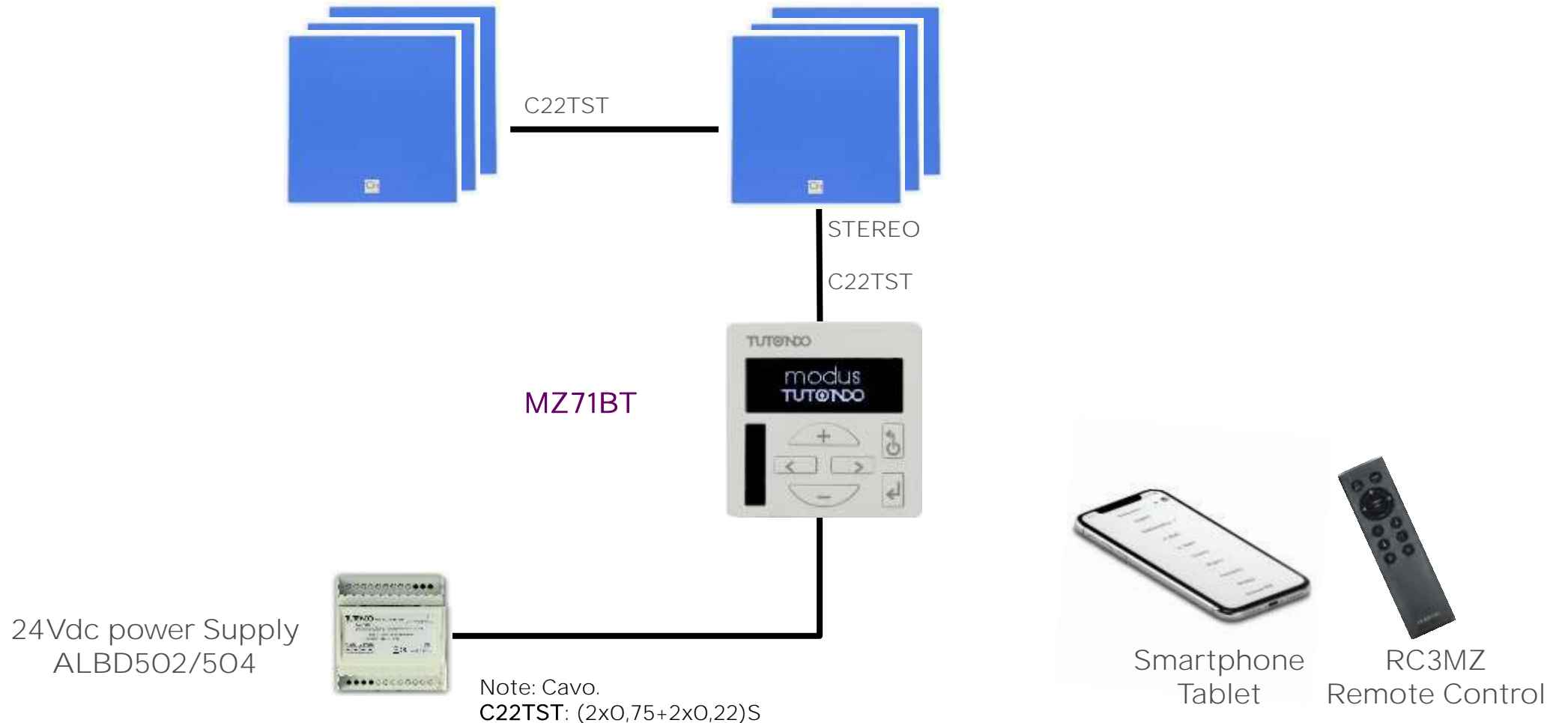
Bidirectional
audio channels

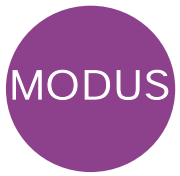


MODUS PERSONAL AUDIO HI FI

Stand alone mode, Modus module.

Modus MZ71BT module, with Bluetooth receiver and FM radio, in stereo configuration, with active amplified speakers.





MODUS

PERSONAL AUDIO HI FI

Tutondo Active Amplified Loudspeakers

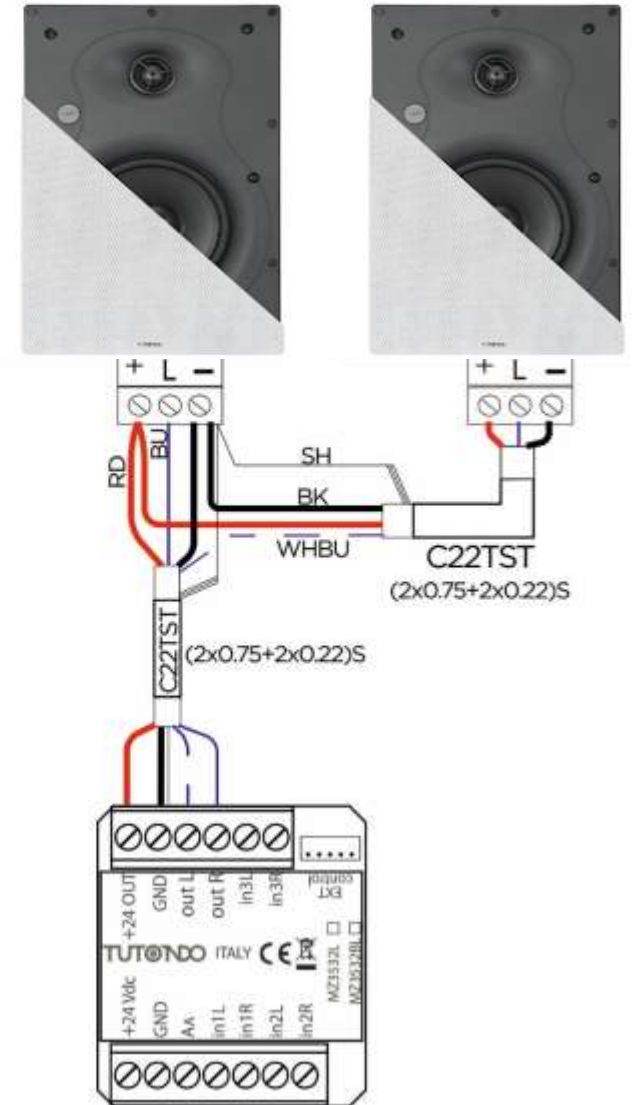
MODUS modules.

Stereo example: MZ71BT, MZ71T

C22TST Active Speaker Cable

Advantage: connection of 20 loudspeakers for MODUS

Active speakers
503-508-530



- RD: red/rosso (+24 Vdc)
- BK: black/nero (-)
- WHBU: white-blue/bianco-blu
- BU: blue/blu
- SH: shield/schermo

MODUS

PERSONAL AUDIO HI FI

Accessories, Add-on, on “expansion connector”:

USBJ71:

USB player (mp3) and
3.5mm mini-jack input



DAB71:

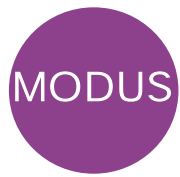
DAB Radio Tuner.



PINJ71:

AUX 3 input,
3.5mm minijack ($\leq 1V_{rms}$)
or by terminals ($\leq 12V_{pp}$)





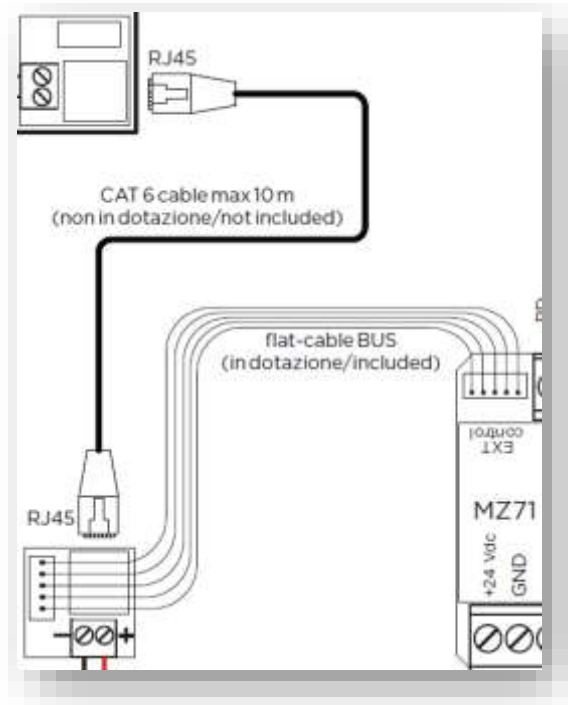
MODUS

PERSONAL AUDIO HI FI

Accessory remote control devices up to 10m (via shielded CAT6):

CRC71

(for USBJ71 and PINJ71)



RDAB71

(remote DAB radio kit)



MODUS

MODUS

PERSONAL AUDIO HI FI

Accessory:



RC3MZ:

Infrared remote control

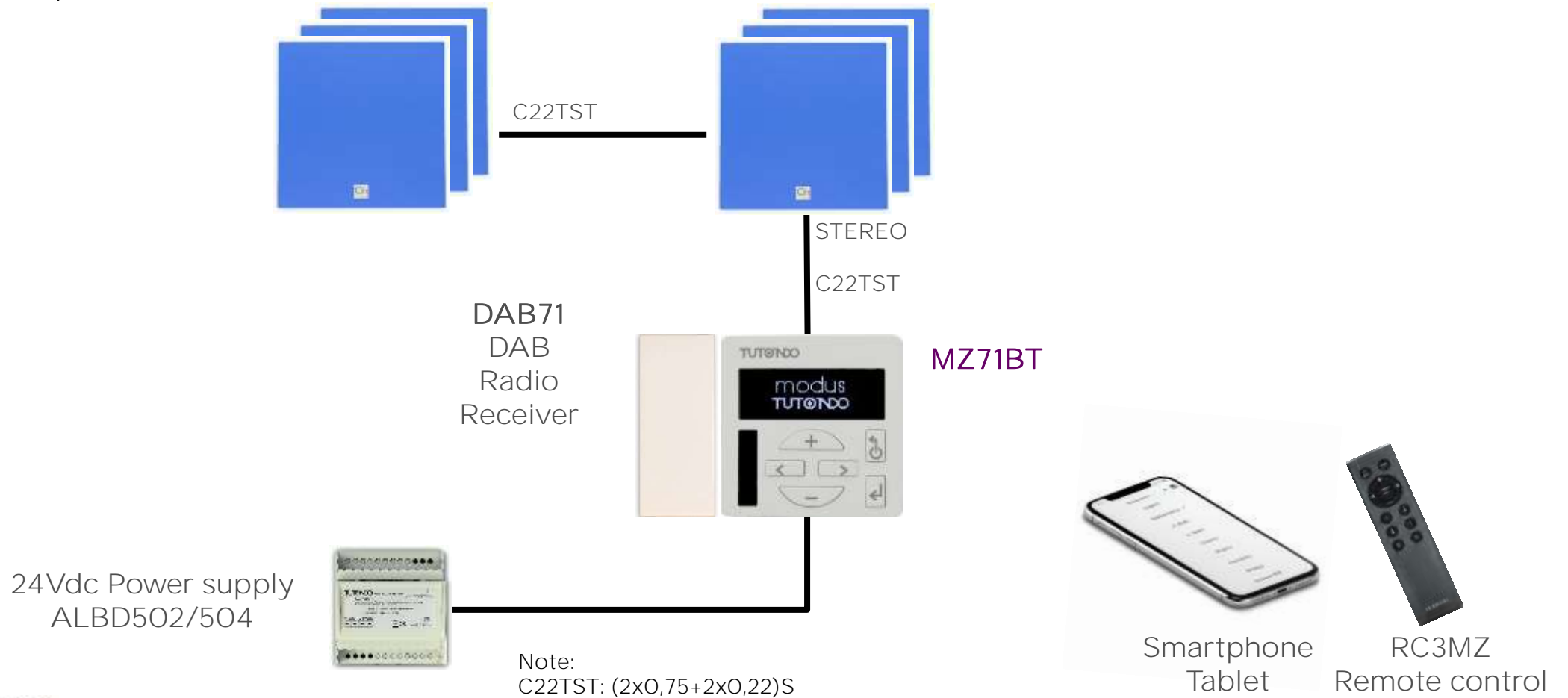
Source control

- Scan = sequential source change
- → = first right function change
- ← = first left function change
- +, - = volume change
- Esc/off = mute / off
- OK = entry to change functions or menus

MODUS PERSONAL AUDIO HI FI

Stand alone mode, Modus module with local DAB Radio accessory.

Application of the DAB71 Radio accessory to the Modus MZ71BT module in stereo configuration, with amplified speakers. The connection of the DAB71 takes place with the supplied cable, through simple direct insertion. This input will be present in the MZ71 module menu as DAB.



MODUS

MODUS

PERSONAL AUDIO HI FI

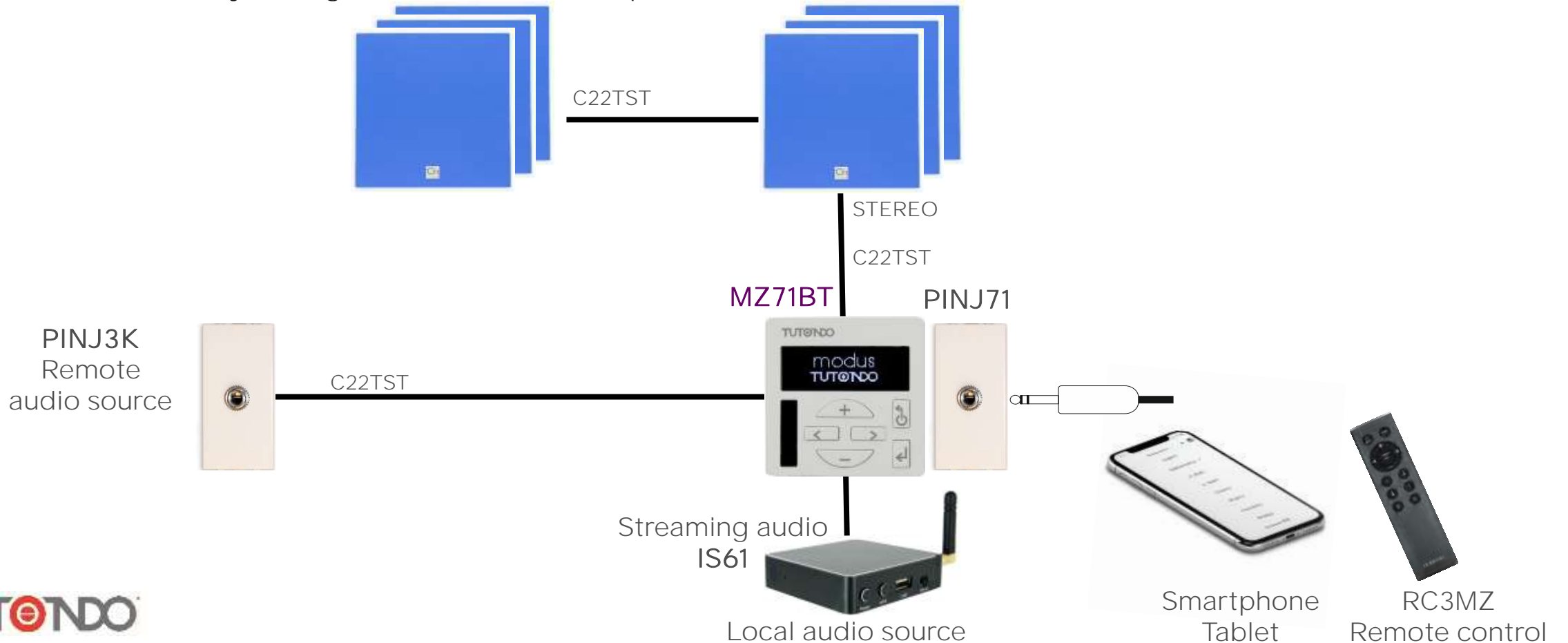
Stand alone mode Modus module, with 3 inputs.
Eg: IS61 and PINJ71 local + 1 remote with PINJ3K

MZ71BT module application with 3 Aux inputs in stereo configuration, with amplified speakers.

Aux1: PINJ71 - the 3.5 mm jack input has priority over the euroblocks terminals input (the terminals are excluded when the jack is inserted).

Aux2: PINJ3K - using the PINJ3K module it is possible to have a remote input distant from the Modus.

Aux3: IN BL and BR - by setting BL and BR as audio input (from the menu)

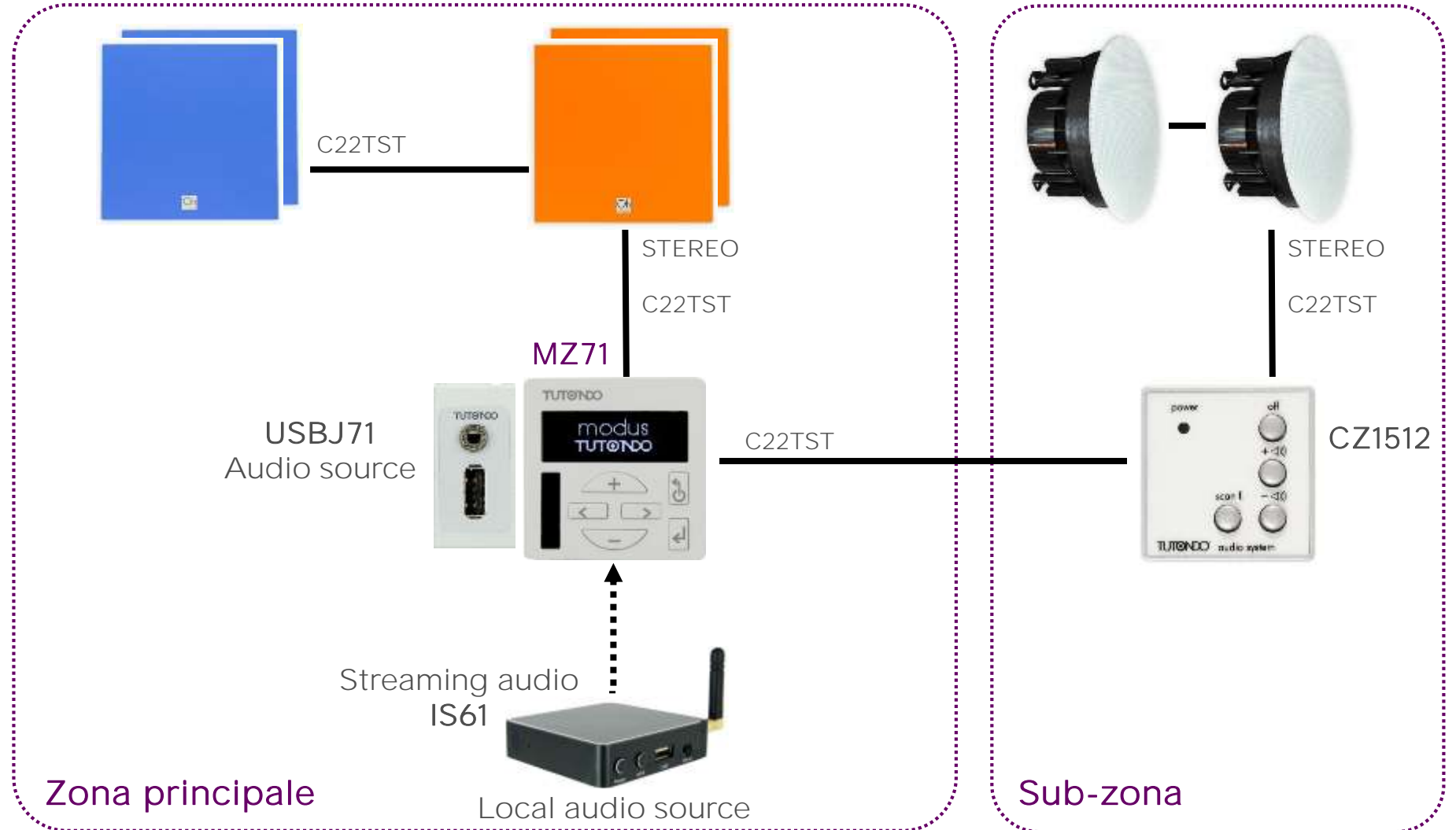


MODUS

PERSONAL AUDIO HI FI

Stand alone mode Modus module with sub-zone and USB player

Modus MZ71 module with USBJ71 accessory. The USBJ71 connection by the supplied cable, direct insertion. Using the BL and BR terminals (*configured as output*) it is possible to drive some sub-zones (with CZ1512 on-wall controls) equipped with independent volume and on / off (*the MZ71 "master" module must be switched ON*).



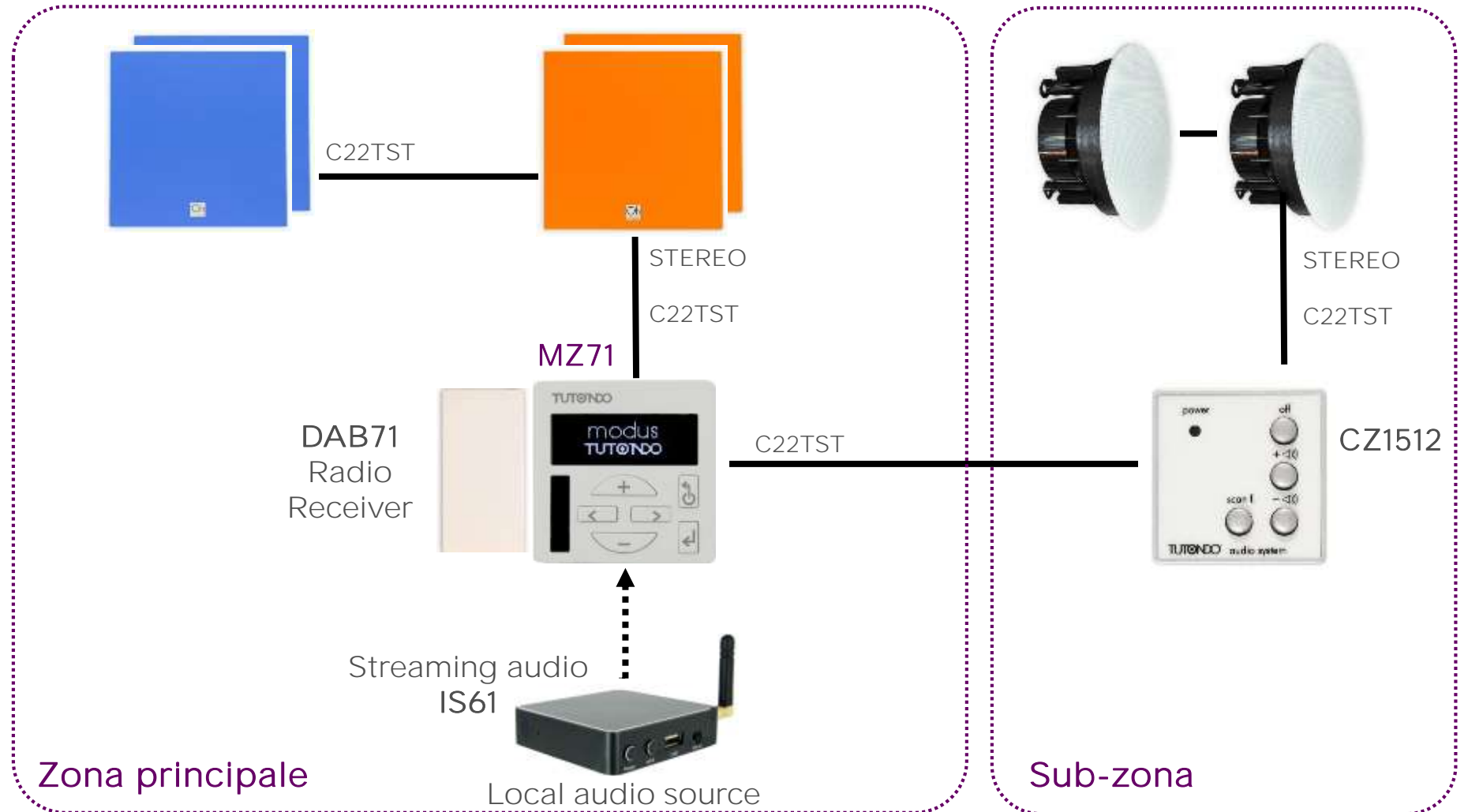
MODUS

PERSONAL AUDIO HI FI

Stand alone mode Modus module with DAB radio and sub-zone

Modus MZ71 module with DAB71 tuner accessory. The DAB71 connection by the supplied cable, direct insertion.

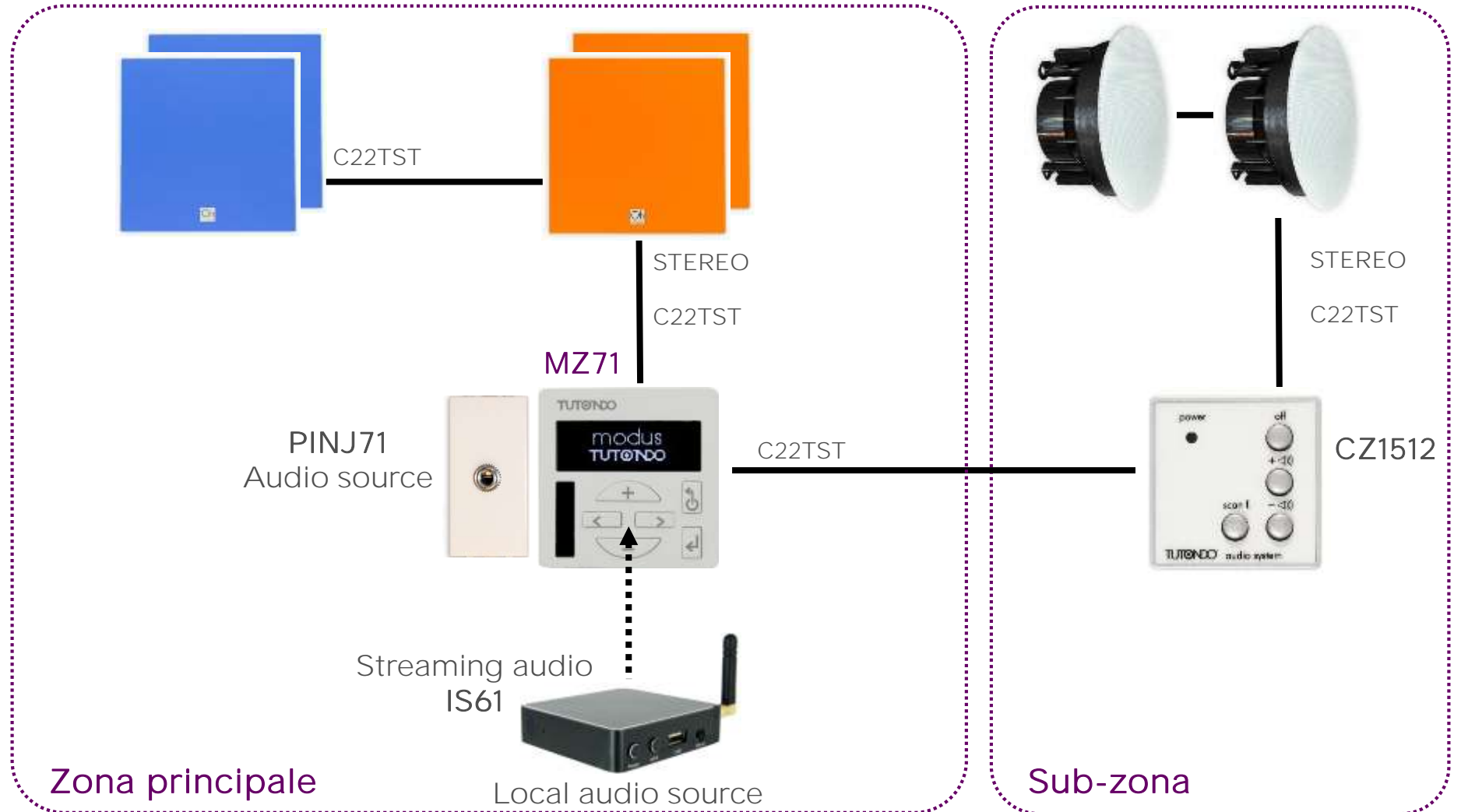
Using the BL and BR terminals (*configured as output*) it is possible to drive sub-zones with independent volume and on / off.



MODUS PERSONAL AUDIO HI FI

Stand alone mode Modus module with sub-zone and PINJ71

Modus MZ71 module with PINJ71 accessory. The PINJ71 connection by the supplied cable, direct insertion.
Using the BL and BR terminals (*configured as output*) it is possible to drive some sub-zones (with CZ1512 on-wall controls) equipped with independent volume and on / off (*the MZ71 "master" module must be switched ON*).



Network Mode

What I get:

- Microphone calls between controllers
- Shared audio: each command can become "master" and make its audio program available to others
- General commands (e.g. turning off all commands)

What should I do:

- BL-BR must be connected in parallel (and remain for the exclusive use of the controls)
- C +, C- must be connected in parallel and connected to the GM3 module (recommended) or alternatively 120 Ω termination resistor

MODUS

PERSONAL AUDIO HI FI

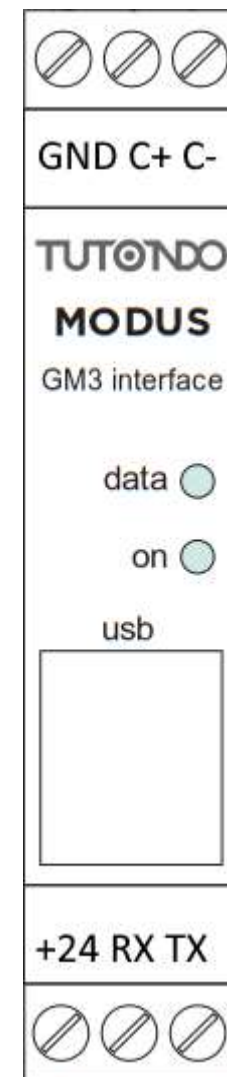
GM3



Bus termination device and firmware update for MODUS series devices.

Preparation: In the future it will allow access to the BUS via USB or RS232 for home automation control systems.

Through GM3 it is also possible to recover any "briccati" Modus modules

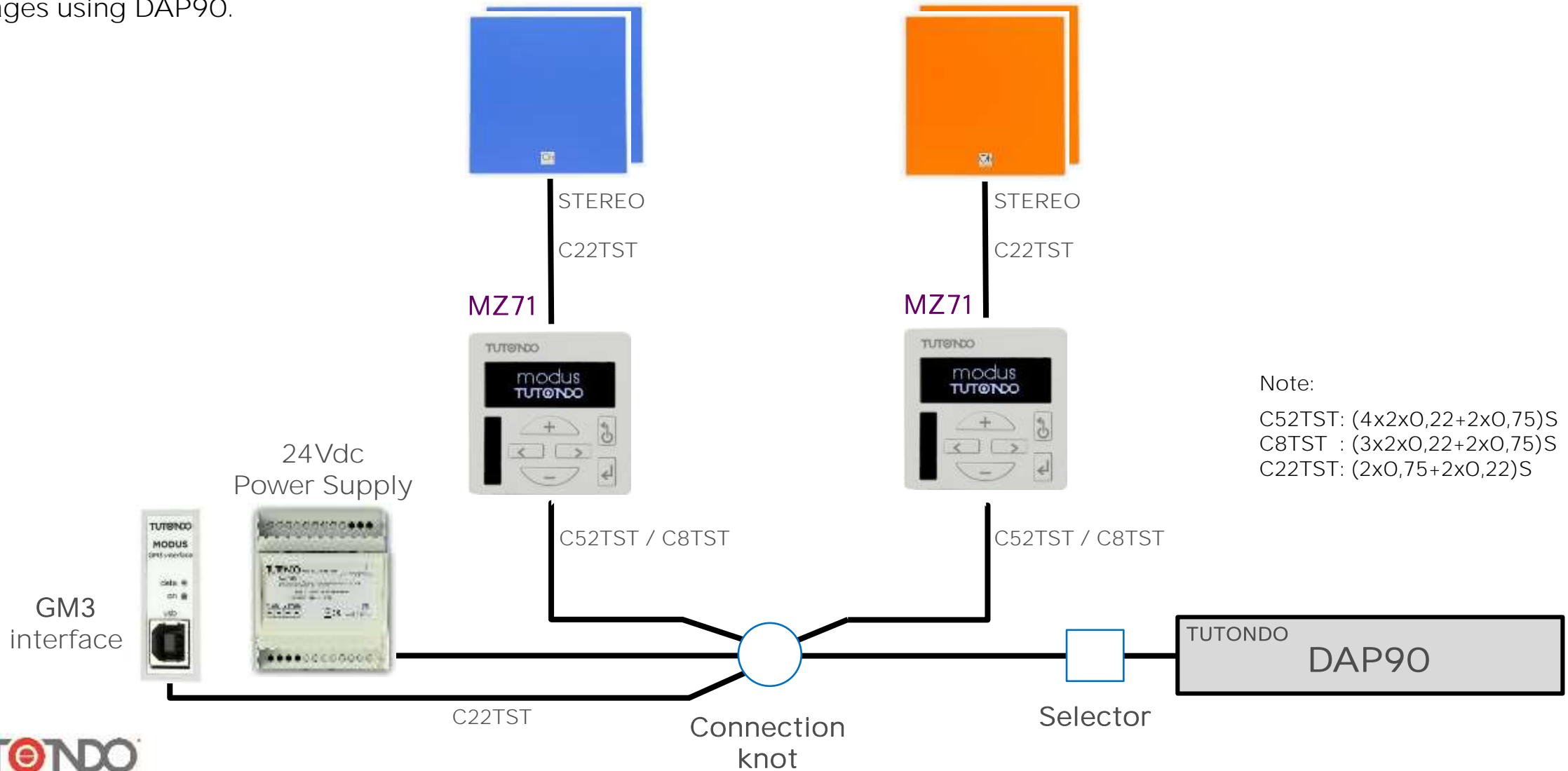


MODUS

MODUS PERSONAL AUDIO HI FI

Network Mode

Connection diagram in **network mode** with shared audio, microphone calls and the possibility of sending pre-registered messages using DAP90.

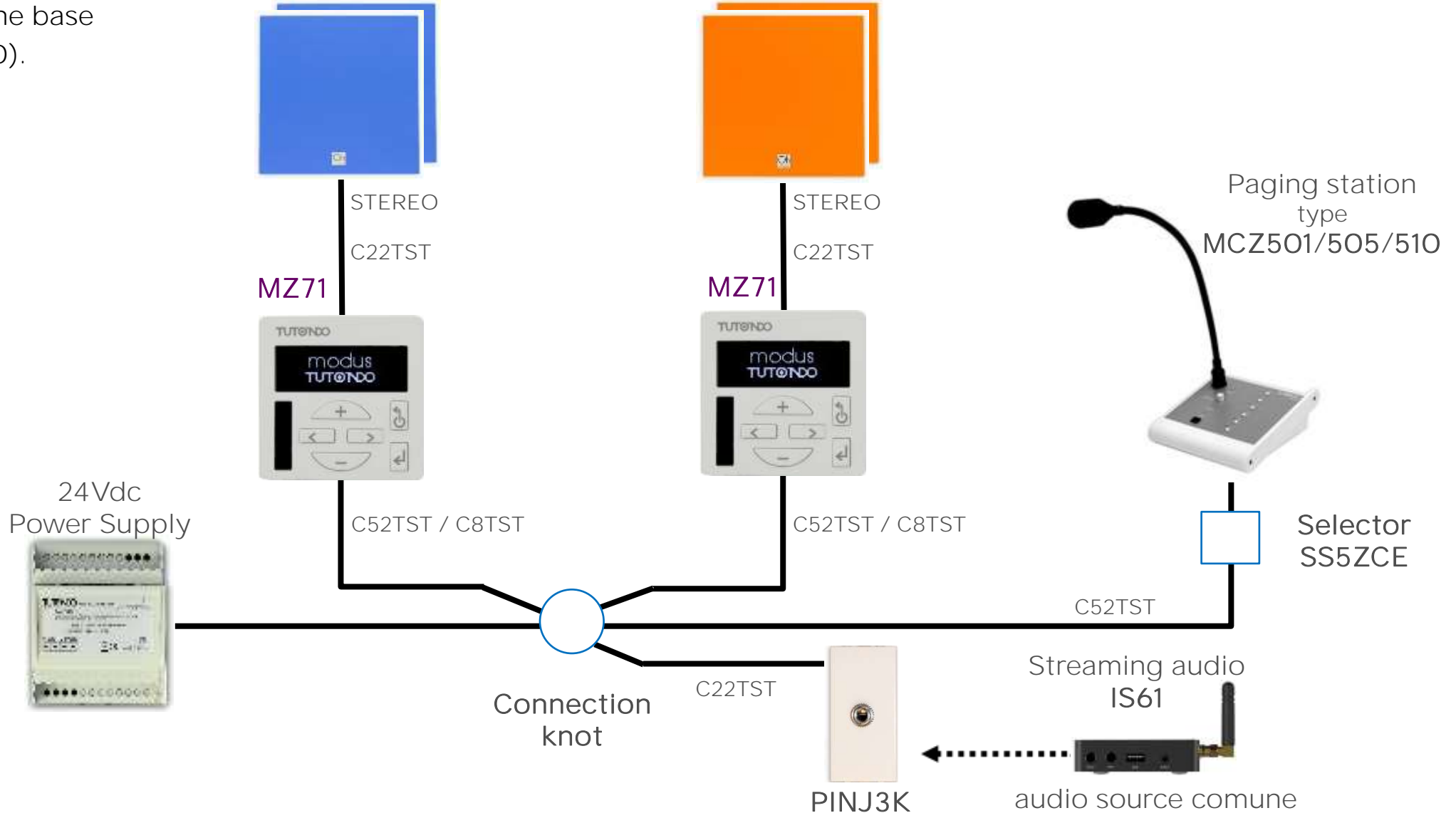


MODUS

MODUS PERSONAL AUDIO HI FI

Stand alone Mode

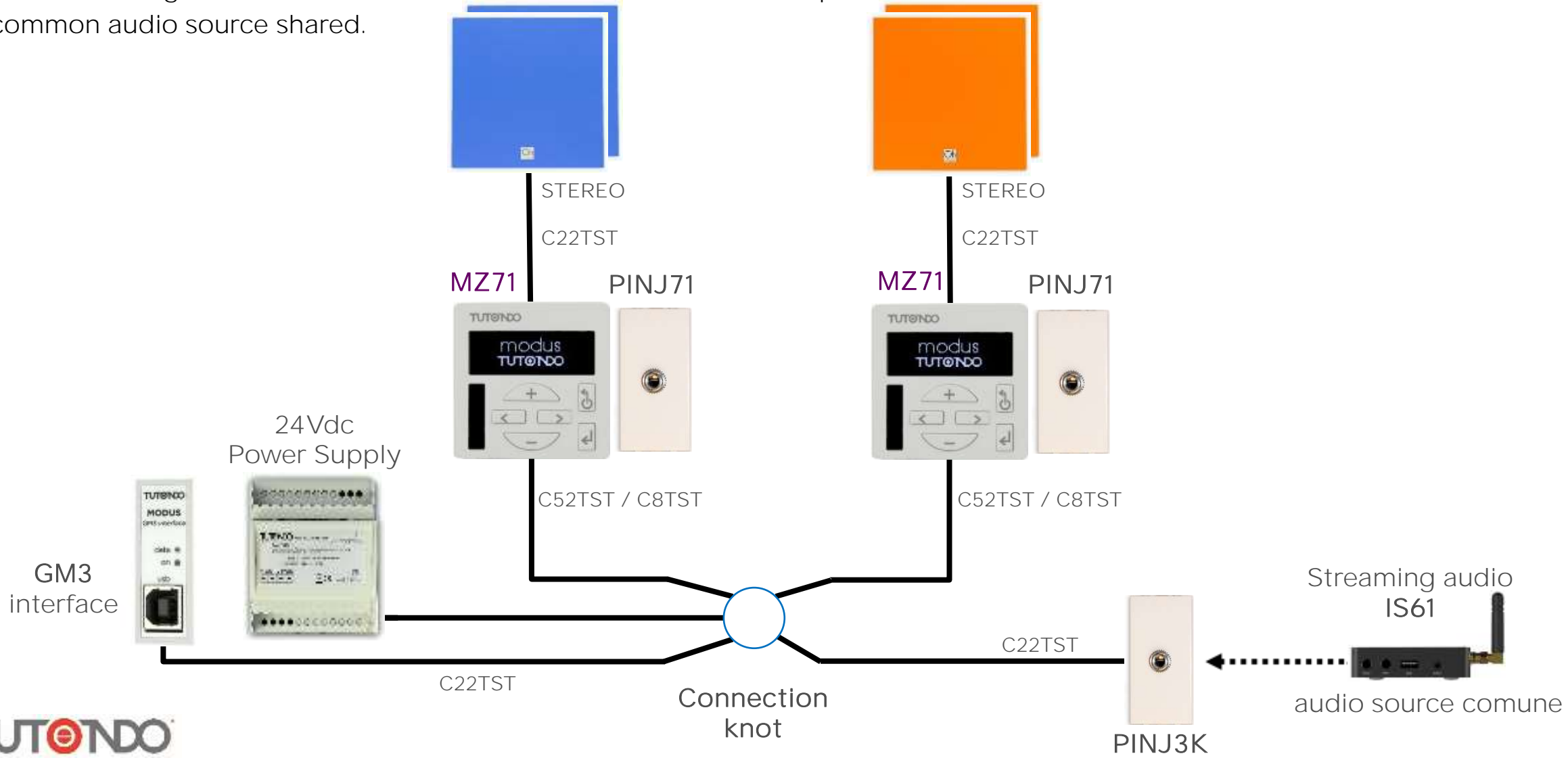
Connection diagram in stand alone mode with common source and possibility of sending microphone messages with desktop microphone base (MCZ501 / 505/510).



MODUS PERSONAL AUDIO HI FI

Network Mode

Connection diagram in **network mode** with shared audio and microphone calls between controllers, 1 common audio source shared.

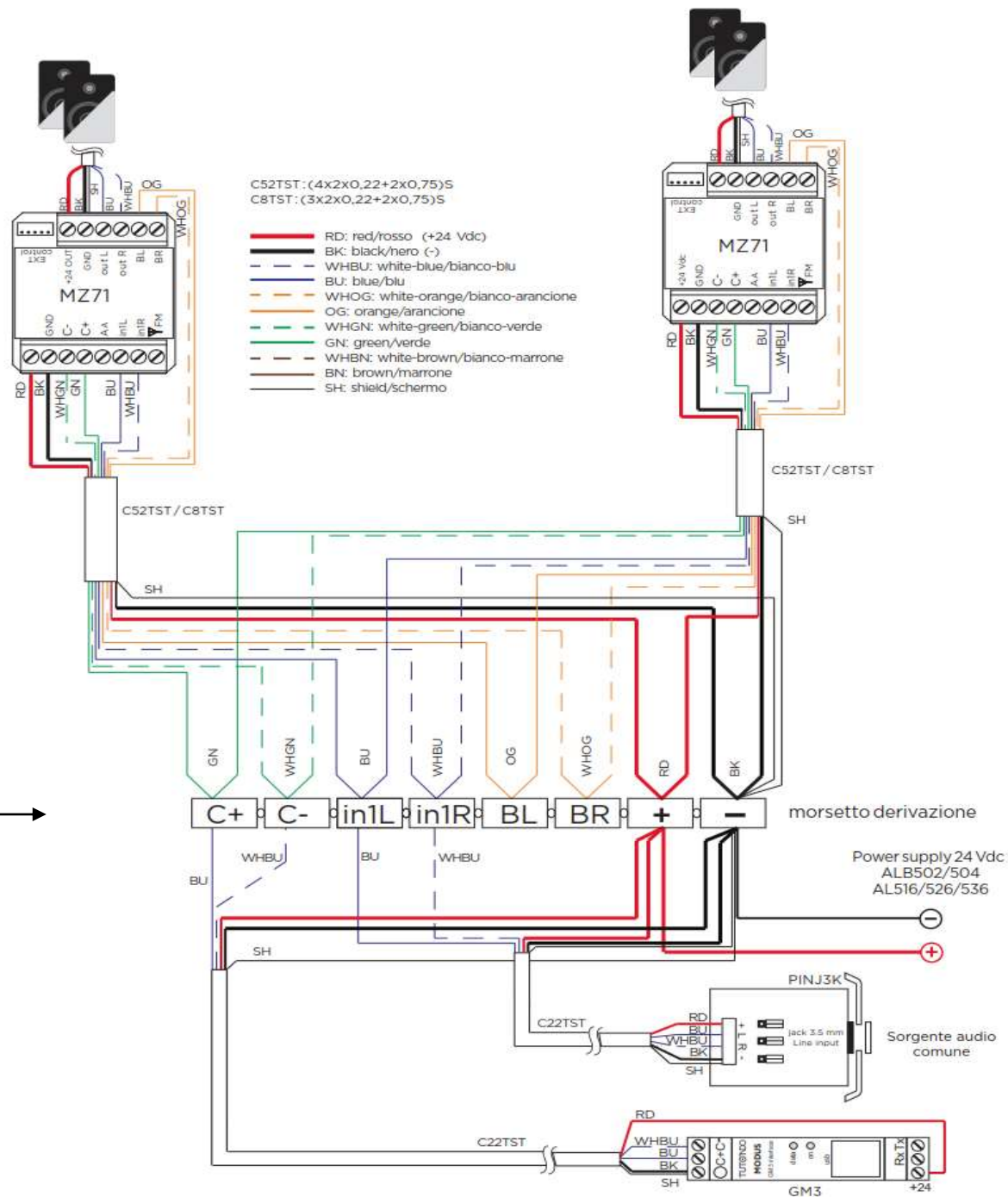


MODUS

MODUS PERSONAL AUDIO HI FI

Network Mode

○
→
Connection
knot

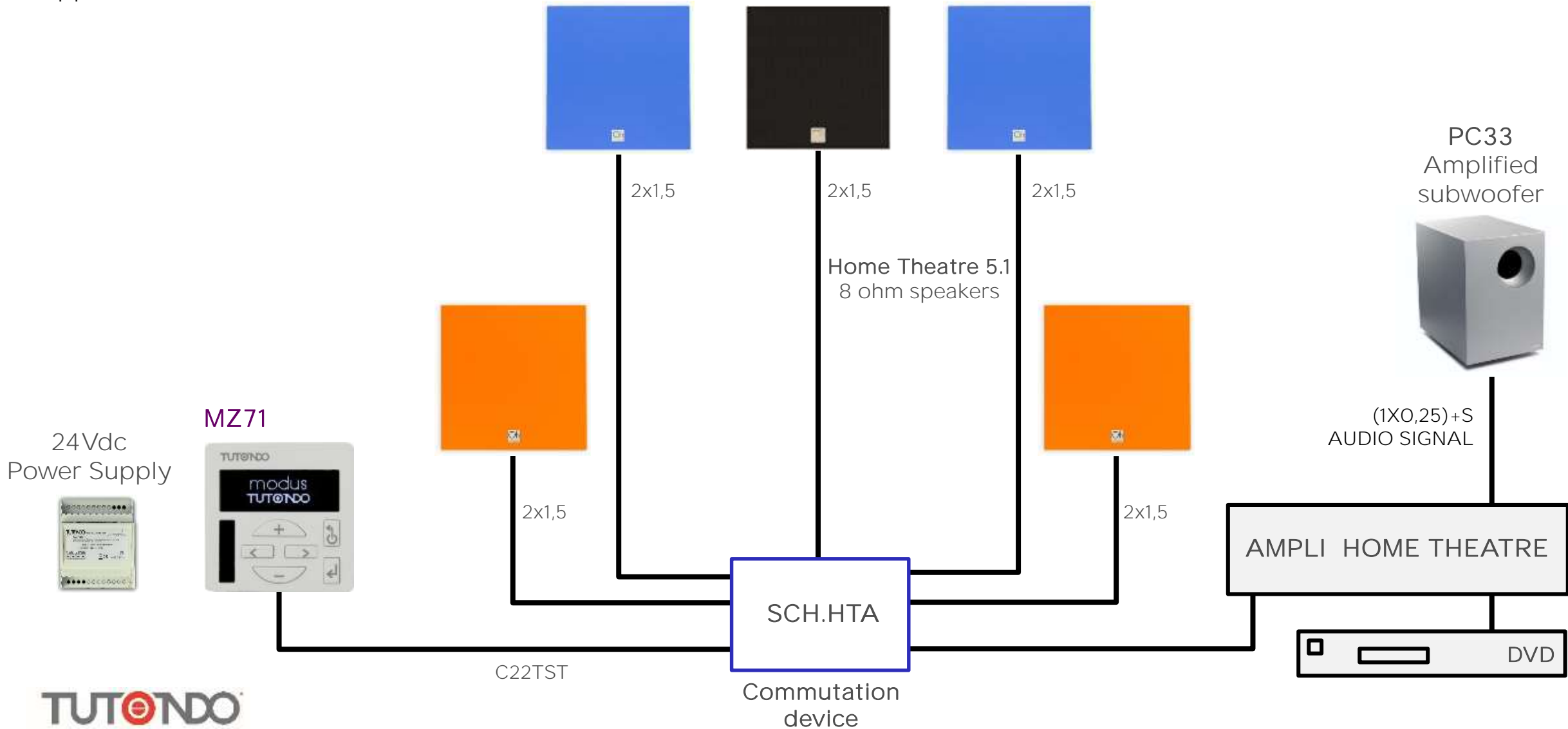


MODUS

MODUS PERSONAL AUDIO HI FI

Connection with SCH.HTA card

Application of an MZ71 module with SCH.HTA card



Integrated sources:

- Bluetooth 5.0 (*see model*)
- FM tuner with RDS

AUX input on InL-InR (0.25 - 12Vpp)

NETWORK mode:

- MIC Calls
 - To my zone itself (*if enabled*)
 - General to all areas
 - Single zone
- Shared audio

Necessary:

- BL-BR in //
- C+, C- in //

Standalone BL BR IN mode:

- MIC call
 - To my zone itself (*if enabled*)
 - AUX3 input on BL / BR (0.25-12Vpp)

Necessary:

- C+, C- in // for
 - global shutdown
 - home automation

Standalone mode BLBR OUT:

- MIC call
 - To my zone itself (*if enabled*)
- 12Vpp output on BL / BR

Necessary:

- C+, C- in // for
 - global shutdown
 - home automation

Accessories on EXT connector

PINJ71

AUX2 on 3.5mm jack (~ 1Vpp)
or 12Vpp on terminals
(default input sensitivity)

USBJ71

USB mp3 player + AUX analog
input on 3,5mm jack (~ 1Vpp)
AUX and USB are mixed together

DAB71

DAB TUNER

NOTES

- Star connection!
 - mainly for power / audio quality
 - but also for the convenience of wiring
- C +, C- parallel to the star center, attention:
 - 120ohm resistance required between C + and C-, or
 - GM3, recommended in general and necessary for systems with Modus without Bluetooth
- For local AUX inputs no buffer is required (for 1Vrms just set the input gain to 10-13)
- For general AUX inputs (from star center) use 4.25Vrms signals (e.g. insert PINJ3K)
- To enable MIC calls in network mode it is necessary to assign a zone number (from 1 onwards)
- For alarm input Aa necessary 24V (not an “i”)

Audio source: IS61 Wi-Fi Audio Streamer



Can be used as a common source in multiroom systems, local source, or stand-alone system connected to active speakers.

Additional features:

- Analog output with 3.5 mm stereo jack
- Optical SPDIF digital output.
- 5 V dc power supply, micro USB socket (power supply included)

IS61

Streaming Audio Wi-Fi

Purpose of the device and sales arguments

JL IS61



- 1 – The versatility to **LISTEN** to any audio content from the internet.
What music do you want to hear today? Search for it on the web and IS61 will make you listen to it immediately:
internet radio, thematic channels, podcasts, online services (SPOTIFY, Pandora, etc.), playlists, etc.
- 2 – The ability to **SHARE** your favorite songs.
Songs and playlists contained in your smartphone or tablet, sent directly to the audio system
- 3 – The ease of **CONTROL** directly via WiFi.
Simple management from tablets and smartphones with the freedom of the WiFi network you use every day.
Free APP compatible with Apple iOS (iPhone®, iPad) and Android ®.

IS61 : Features

JL IS61



- USB input * for keys containing audio files (mp3, wav, etc ..)
- AUX analog stereo input for external source
(external mp3 players, FM tuner, PC audio output, TV headphone output, etc.)
- LAN socket for connection to the wired network
- Antenna for Wi-Fi network connection **
- Streaming with AirPlay, DLNA, Windows PC, etc. protocols
- Streaming from UPNP Server, NAS, etc ..



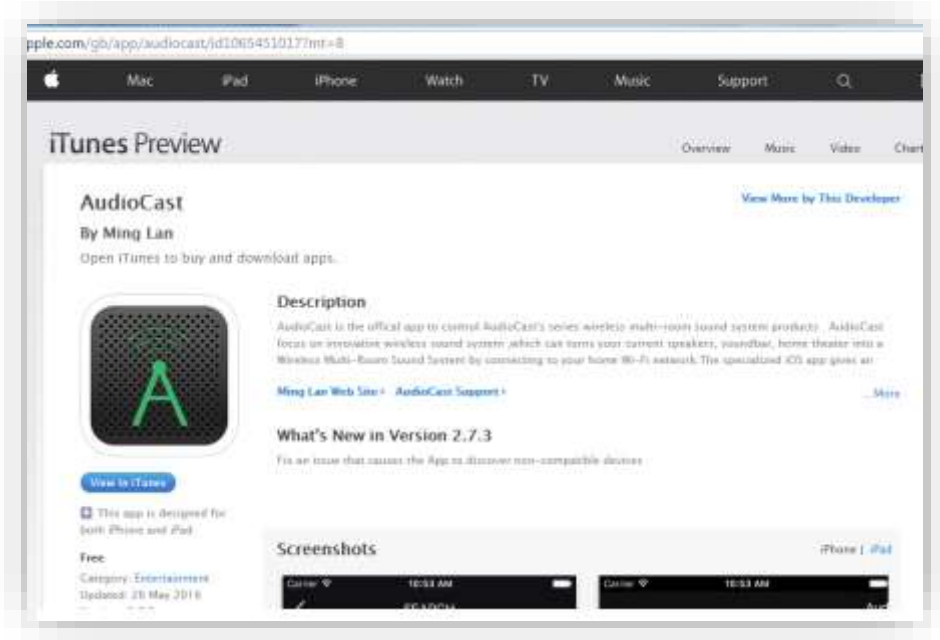
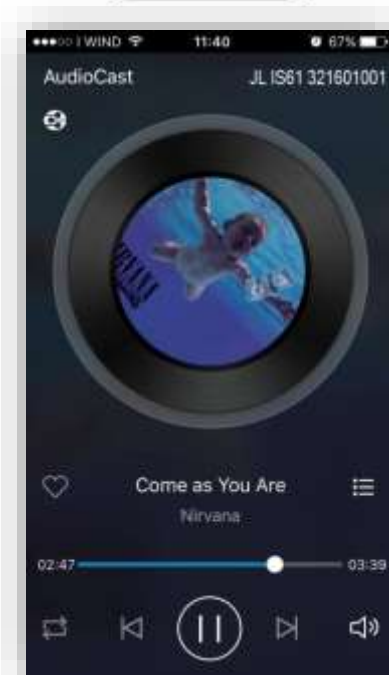
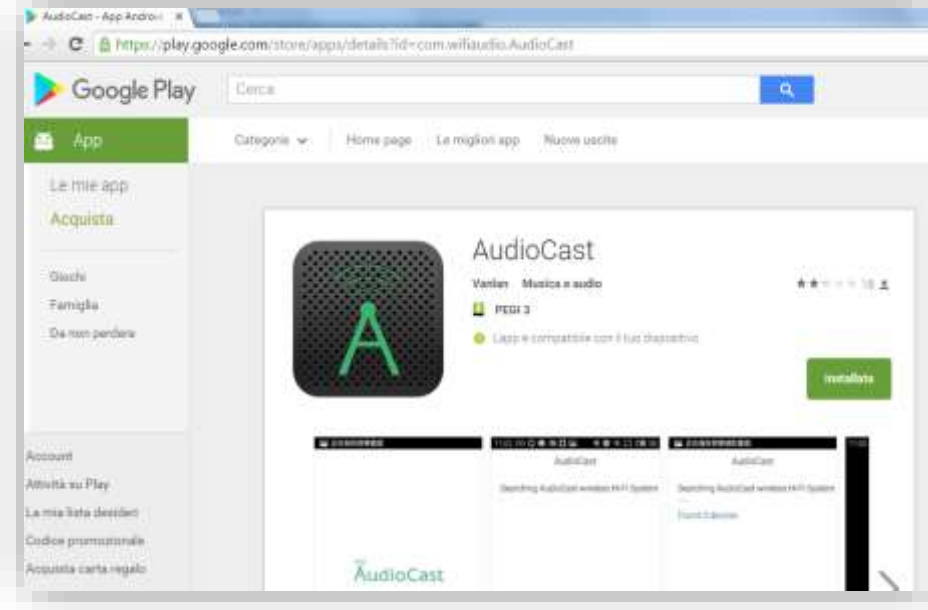
AirPlay



* IS61 disponibile anche con ingresso Micro Sd-card al posto del USB (fino ad esaurimento scorte)
in assenza di una rete WiFi locale, IS61 può generarne una propria SOLO per controllo e condivisione interna (*no internet*)

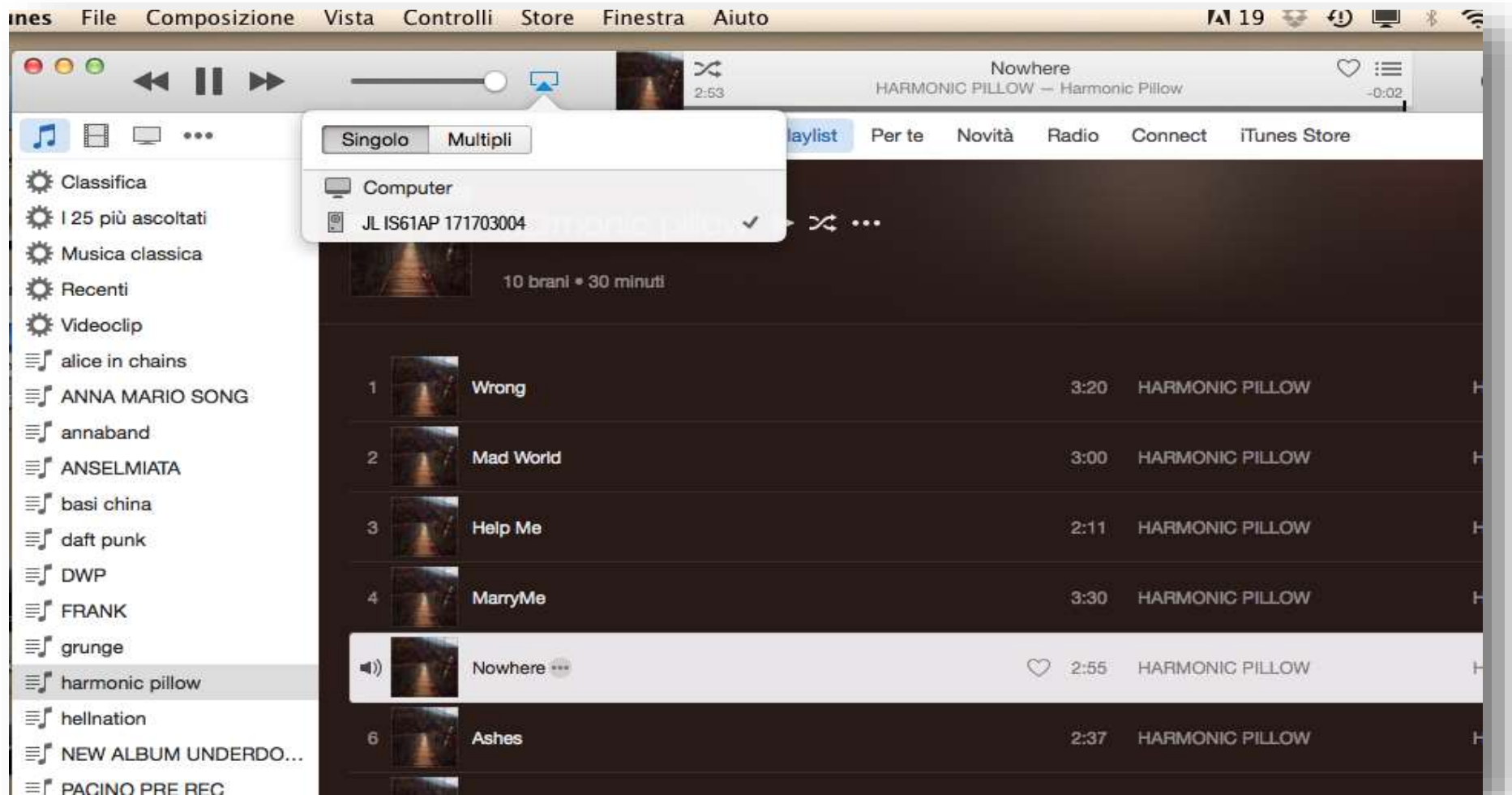
IS61 and IS61AP Streaming Audio Wi-Fi

Control via Wi-Fi: AUDIOCAST application



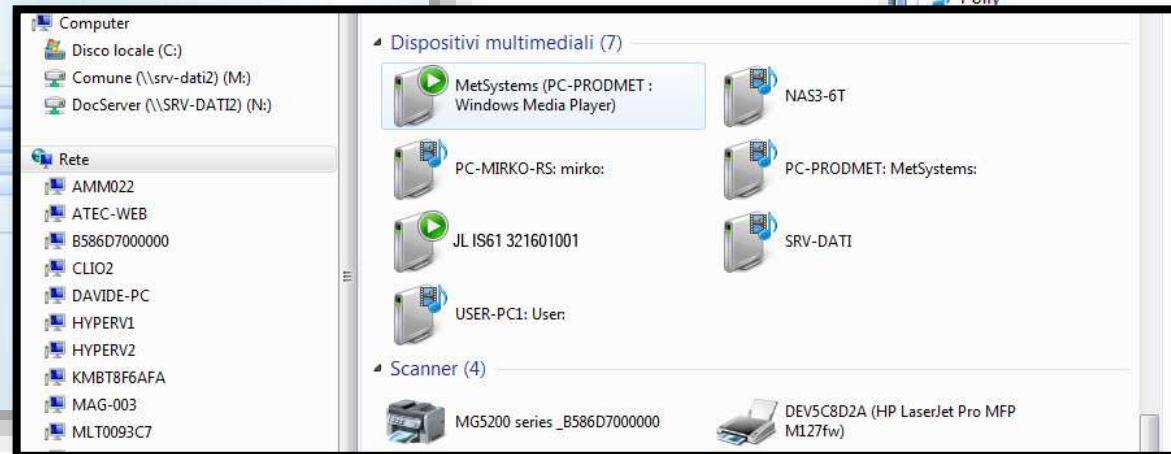
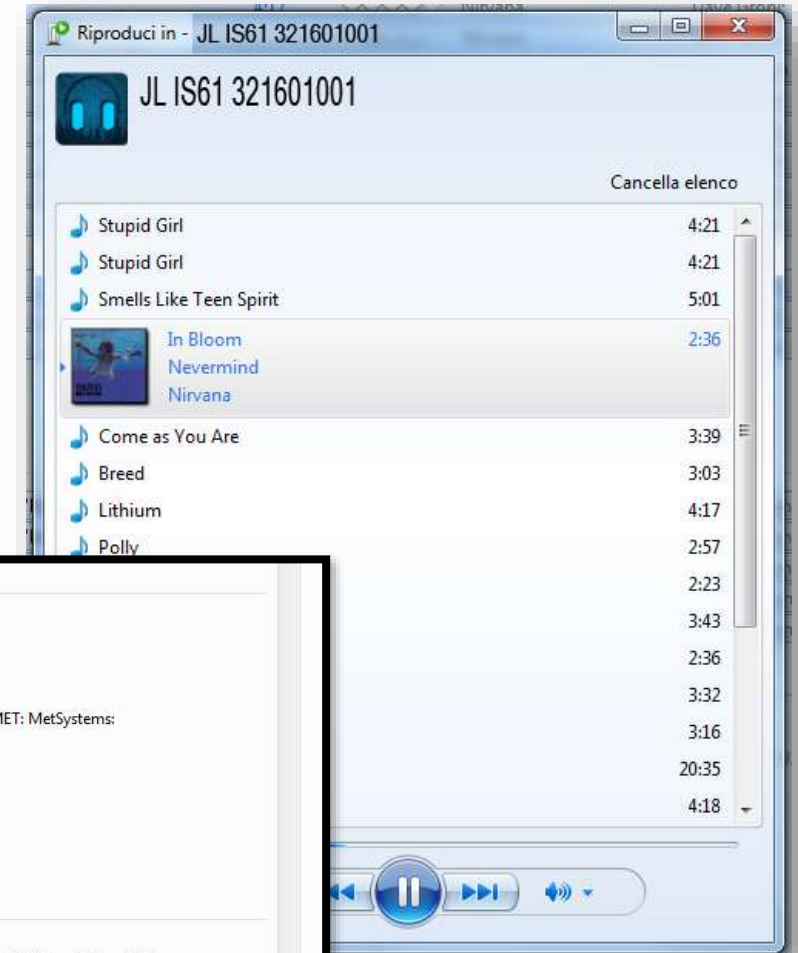
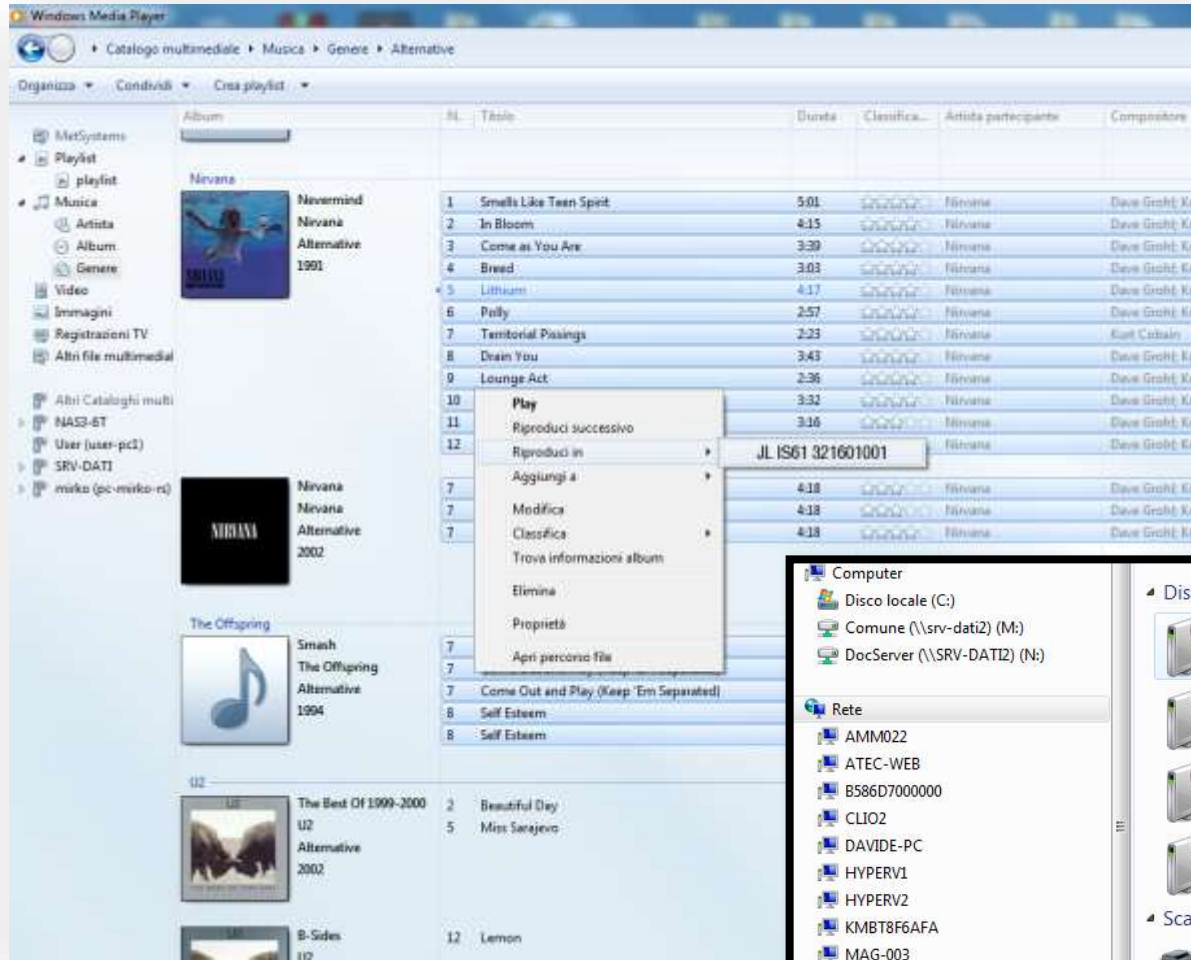
Streaming audio WiFi TUTONDO

Example screens for use with iTunes and WindowsMediaPlayer



Streaming audio WiFi TUTONDO

Example screens for use with iTunes and WindowsMediaPlayer





MODUS *lite*



MODUS Pro

COMPARISONS

MZ3532L

MZ3532BL

MZ71T

MZ71BT

Bus digitale

-

-



Radio FM built-in

-

-



Bluetooth built-in

-



-



Microphone built-in

-

-



Programms Input

3

3 + Bluetooth

Fino a 3

Fino a 3 + Bluetooth

Connectors for Add-On (USB71, DAB71, ...)



2 Outputs

-

-



Clock

-

-



Proximity

-

-



Tones



Audio effects (2D, 3D, ...)

-

-



Clamp AA

Change functions RD2502

Change functions RD2502

Programmable events

Programmable events