

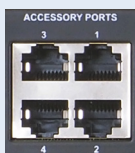


INTRODUCTION

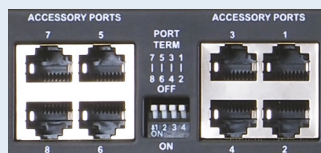
The ZONEMIX accessory ports allow for the connection of wall panels, paging stations and audio input sources. Please follow the guide below to set up your system.

Key:

ZONEMIX 4



ZONEMIX 8



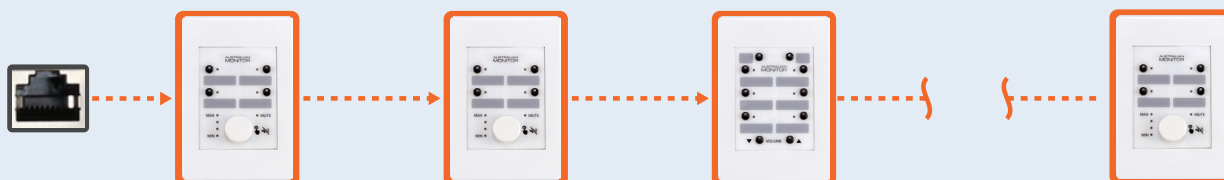
Wall Controllers



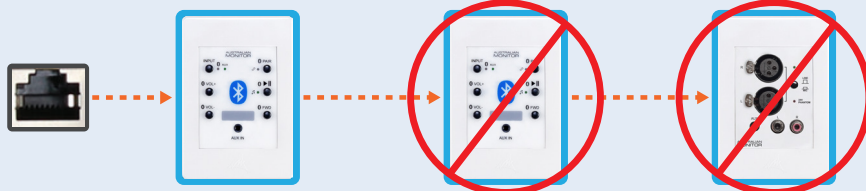
Audio Sources



Supports up to 8 controllers per port. (see page 2 for details)



Supports ONE audio input PER accessory port.



Supports up to 8 paging stations per port. (see page 2 for details) Note: Supports one active page at a time.

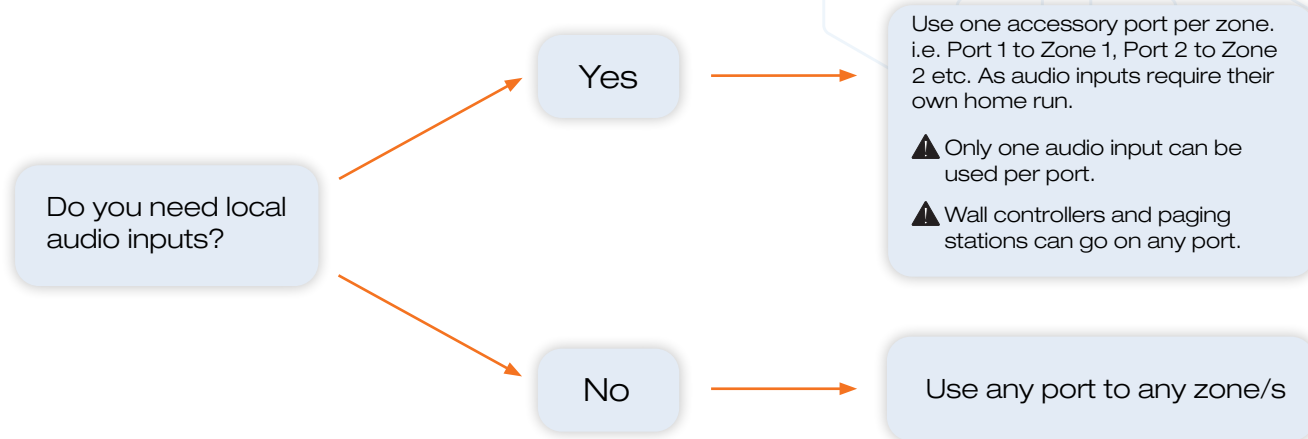


Example setup: Lots of controllers, lots of paging stations and ONE audio input.



! Please note that accessory port local audio input channels are locked to the corresponding output zone and only one can be used per zone. E.g. Accessory port 1 local input connects to Zone 1. However, multiple wall panels and paging stations can be connected on the same accessory port.

STEP 1: DECIDE PORT WIRING LAYOUT



STEP 2: CONFIRM YOU DO NOT EXCEED THE FOLLOWING LIMITS

Maximum cable length per port	Accessories per port	Maximum Accessories in system
130m	8	24
150m	7	
170m	6	
200m	5	
250m	4	
350m	3	
500m	2	

The maximum distances quoted in the table are due to DC current limitations.

The paging stations and wall panels can be locally powered to increase the cable length to a maximum of 500m. **See Accessory Port Wiring for longer than 500m on pg7.**



STEP 3: ACCESSORY PORT WIRING

There are two wiring standards which can be used, T-568B and T-568A.

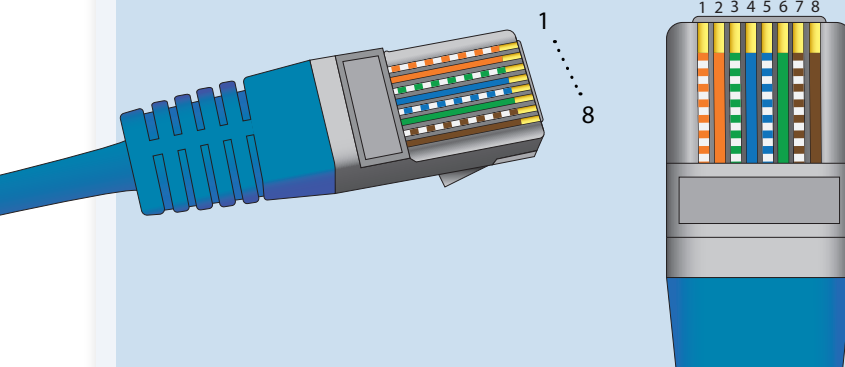
The difference between the two standards are the orange and green wiring pairs are different.

- T-568B (orange pair are on pins 1+2, green pair are on pins 3+6)
- T-568A (orange pair are on pins 3+6, green pair are on pins 1+2)
- We recommend using T-568B but either standard is supported.
- **Pick one standard only and use it for all connections.**



ZONEMIX AND ZMPS WIRING STANDARDS

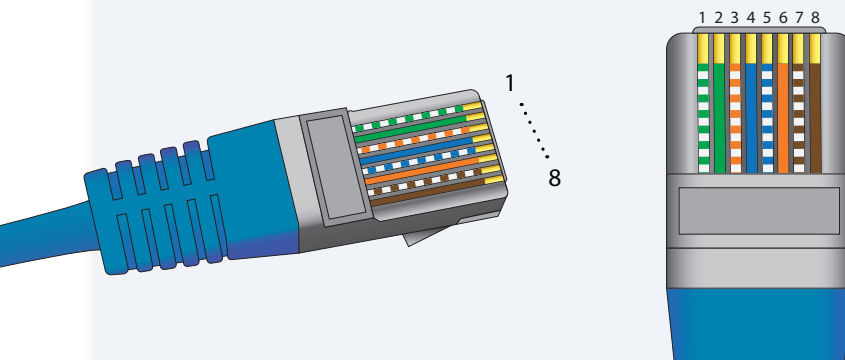
T-568B STANDARD (RECOMMENDED)



Pin	Colour	Signal
1	Orange/White	Paging Audio +
2	Orange	Paging Audio -
3	Green/White	RS485 B
4	Blue	+24V DC
5	Blue/White	GND
6	Green	RS485 A
7	Brown/White	Remote Input +
8	Brown	Remote Input -

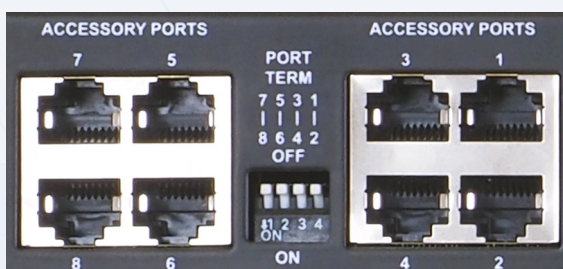
*T-568B wiring standard recommended

T-568A STANDARD



Pin	Colour	Signal
1	Green/White	Paging Audio +
2	Green	Paging Audio -
3	Orange/White	RS485 B
4	Blue	+24V DC
5	Blue/White	GND
6	Orange	RS485 A
7	Brown/White	Remote Input +
8	Brown	Remote Input -

ZONEMIX



ZMPS



STEP 3: ACCESSORY PORT WIRING (CONT.)

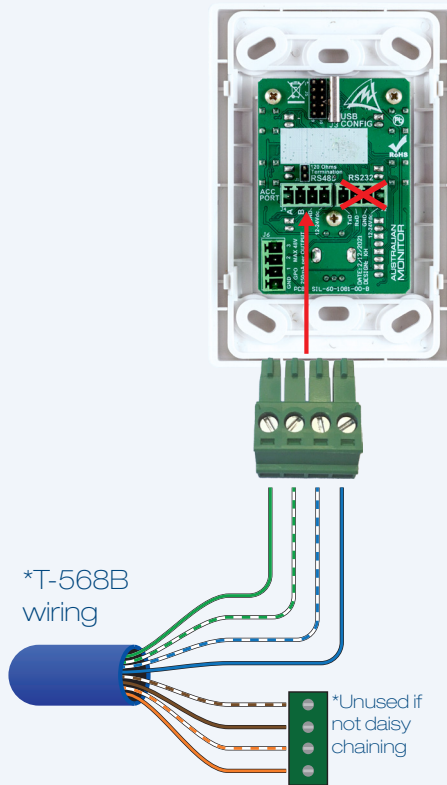
Wire the wall panels as per the images below.

- Category 5, 5e and 6 cabling supported.
- T-568B wiring recommended. However, T-568A also supported.

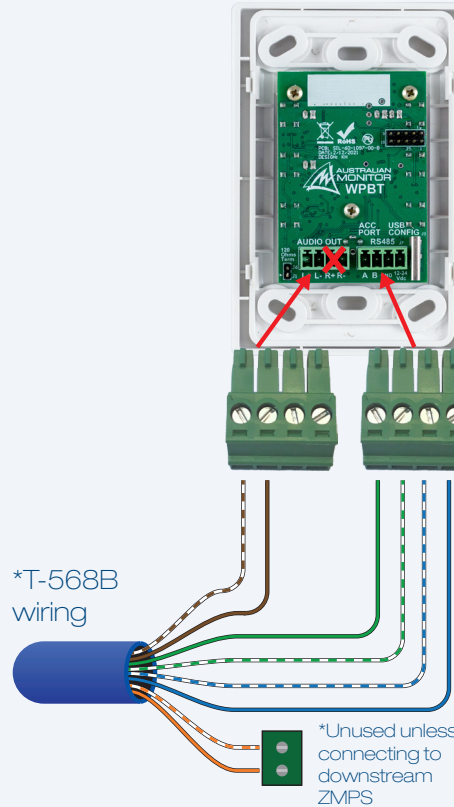
T-568B wiring

1	Paging Audio +
2	Paging Audio -
3	RS485 B
4	+24V DC
5	GND
6	RS485 A
7	Remote Input +
8	Remote Input -

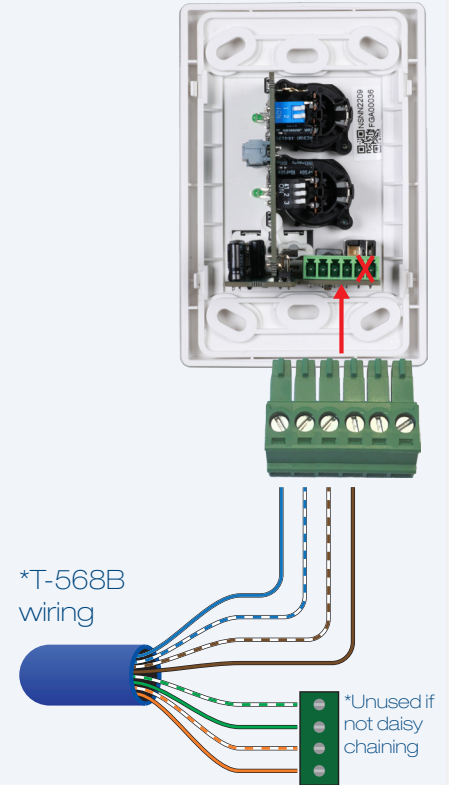
WP4R, WP10, WPVOL WIRING



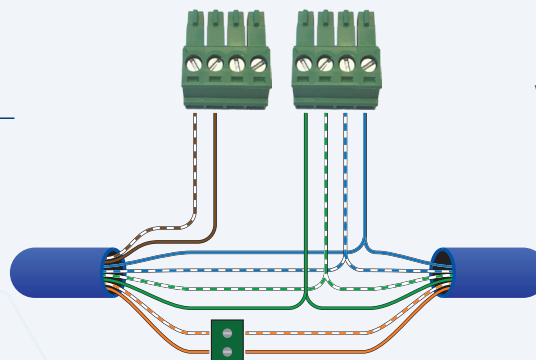
WPBT WIRING



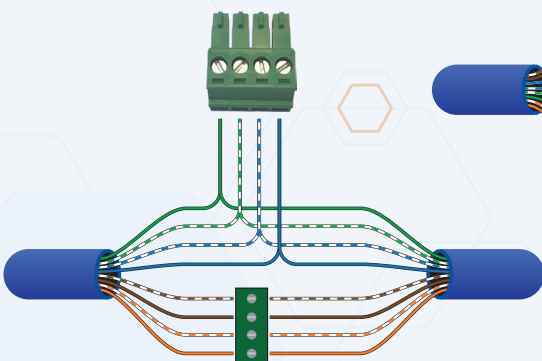
WPML WIRING



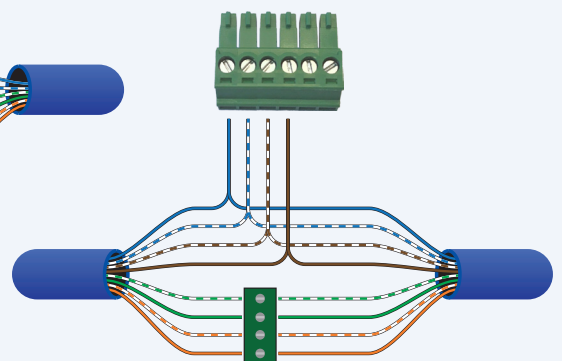
WPBT daisy chain wiring



WP4R, WP10, WPVOL daisy chain wiring



WPML daisy chain wiring





STEP 3: ACCESSORY PORT WIRING (CONT.)

Wire the ZMPS as per the image below.

- Category 5, 5e and 6 cabling supported.
- T-568B wiring recommended. However, T-568A also supported.

ZMPS DAISY CHAIN WIRING



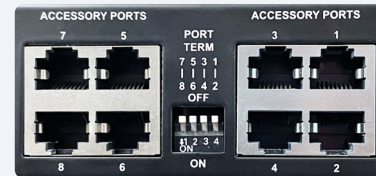
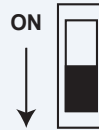
STEP 4: PORT TERMINATION – DO NOT SKIP THIS STEP

The ZONEMIX uses the RS485 standard to communicate to wall panels and paging stations. RS485 requires that each end of the cable run is terminated to prevent signal corruption due to signal reflections in the cable.

The Accessory Ports are grouped in Pairs. 1+2, 3+4, 5+6, 7+8. You must terminate the ZONEMIX and Accessories based on which ports you use.

1. Terminate the ZONEMIX accessory ports, as per the table, using the PORT TERM switches

ACCESSORY PORT TERMINAL SWITCH SETTING			
ONE PORT USED	TERM	BOTH PORTS USED	TERM
Port 1 OR Port 2 used	ON	Port 1 AND Port 2 used	OFF
Port 3 OR Port 4 used	ON	Port 3 AND Port 4 used	OFF
Port 5 OR Port 6 used	ON	Port 5 AND Port 6 used	OFF
Port 7 OR Port 8 used	ON	Port 7 AND Port 8 used	OFF



2. Terminate the LAST RS485 accessory on the port cable run.

Paging station termination

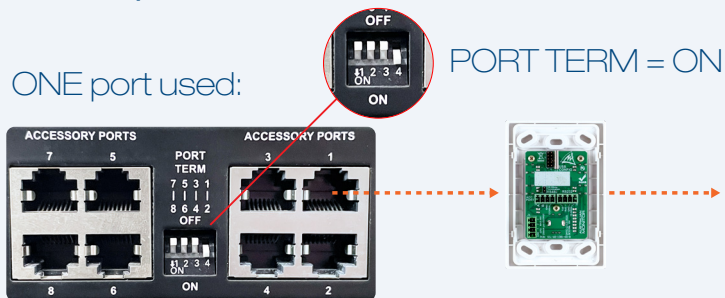


Wall panel termination

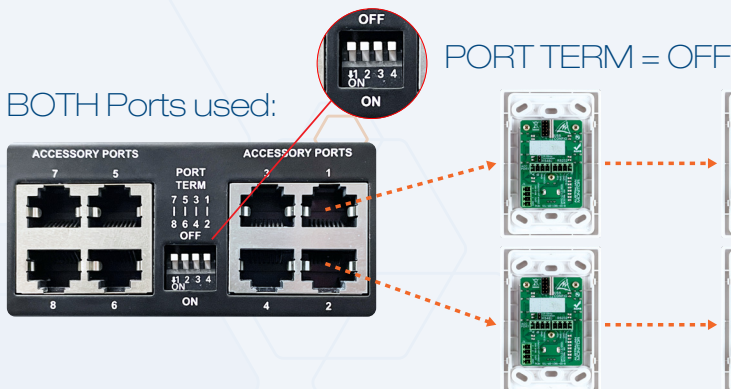


Examples:

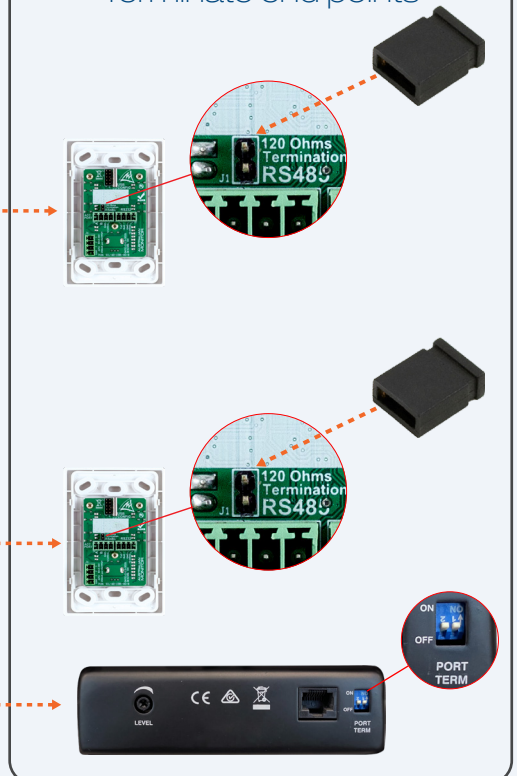
ONE port used:



BOTH Ports used:



Terminate end points



ACCESSORY PORT WIRING FOR LONGER THAN 500M

You need to power the accessory locally using a customer-provided 24V power pack with a current rating of 500mA per accessory minimum. There is too much voltage drop at these distances for the ZONEMIX to power the accessory directly.

1. Install the 24V PSU near the accessory
2. Cut the blue wire (pin 4) at the accessory end only
3. Connect the PSU +24V to the cut blue wire at the accessory
4. Connect the PSU negative (black/ground wire) back to the ZONEMIX ground at the head unit.

This ground wire must be the same thickness as the blue wire.

IMPORTANT: RS485 termination is still required. Follow Step 3 on page 6 to terminate the last accessory on the cable run (120 Ω jumper for wall panels, or PORT TERM switch for paging station).

