

# INSTALLATION MANUAL

## TIS AUDIO PLAYER

### DIN-RAIL AMPLIFIER

Model: AMP-5S1Z-MTX



## PRODUCT INFORMATION

This product is capable of streaming high-quality sound from various sources and features integrability with speakers and other TIS solutions for a full automation of projects.

## PRODUCT SPECIFICATIONS

	<b>Input</b>	USB slot / SD card slot	To play mp3 tracks from SD card (Class4 recommended)
		Auxiliary 1	Screw terminal 0.2...2 mm2
		Auxiliary 2	Screw terminal 0.2...2 mm2
		FM Radio	FM radio IC with antenna
	<b>Output</b>	Stereo amplified output	2 x 25 Watt / 8 ohms
		Auxiliary output	Variable stereo RCA plug output
	<b>TIS Bus</b>	Number of devices on 1 line	Max. 64
		Bus voltage	12-32 V DC
		Current consumption	<15 mA / 24 V DC (Standby), 1.5 A/24V peak
	<b>Protection</b>	Bus connection	Reverse polarity protection
		Amplifier	Reverse polarity protection
	<b>Operation</b>	Programming button/LED	For assignment of the physical address
		By TIS bus	TIS protocol messages and commands
		Upgrading	By Rs485 upgrading kit
	<b>Functions</b>	Track playing	To play one of the sources (SD, USB, FM,AUX) in the area / room
		Alert announcement	To announce alerts on speaker for home automation
		Track / source selection	Via wall switches & TIS App
	<b>Dimensions</b>	Width x length x height	90mm x 69mm x 76mm
	<b>Housing</b>	Materials	Fireproof ABS
		Casing color	Black
		IP rating	IP 20



BARCODE (UPC-A)





### Read Instructions

We recommend that you read this Instruction Manual before installation.



### Mounting Location

Install in a dry, well-ventilated location. Controllers may emit some mechanical noise. Take this into account when deciding on a mounting location.



### Safety instructions

Electrical equipment should only be installed and fitted by electrically skilled persons.

Failure to observe the instructions may cause damage to the device and other hazards.

These instructions are an integral part of the product and must remain with the end customer.



### Data Cable

Use screened stranded RS485 data cable with four twisted pairs. Configure devices in a "Daisy Chain."

**Do not cut or terminate live data cables.**



### Programming

This device can be tested and programmed manually. Advanced programming requires knowledge of the TIS Device Search software and instruction in the TIS advanced training courses.



### Warranty

There is a Two-Year warranty provided by law. The hologram warranty seal and product serial number are available on each device.



### Simple Installation

DIN Rail mount facilitates installation. Fixing points are provided for installation without the use of DIN rail.





## INSTALLATION STEPS



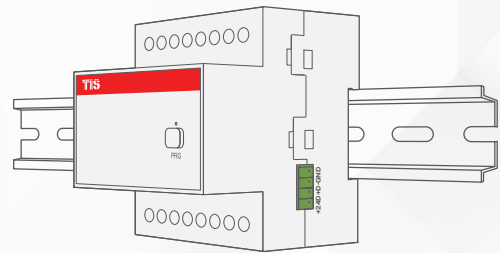
Turn Off TIS Power supply



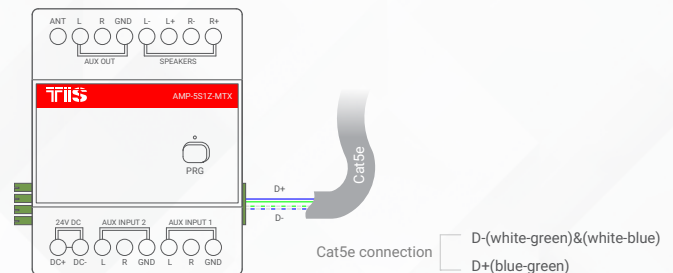
**WARNING! HIGH VOLTAGE**



Mount the device on a DIN rail inside an approved enclosure. The device can also be installed without the use of DIN rail by two mounting screw holes.



Connect Cat5e TIS network data cable to the TIS-BUS port as per the connection diagram. No need to loop the TIS-bus cable if 2 DIN Rail modules are connected together from the side bus train terminal.

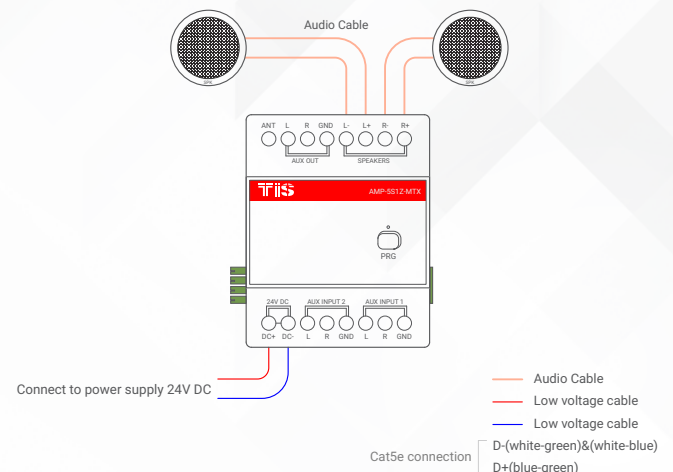


Complete the connection, as per the following steps:



### CONNECTING TO SPEAKERS

Use 2 speaker cables to connect to module speaker terminal L+(Lift+) and L-(Lift-), and R+ R- (Right) terminals.

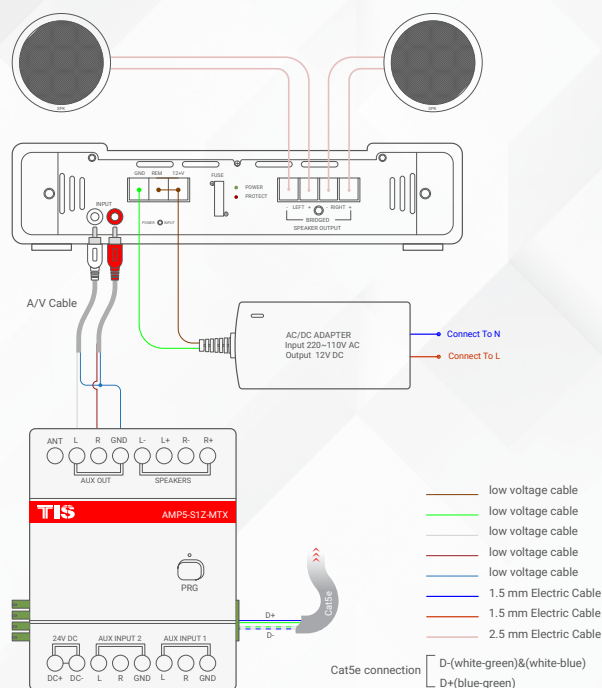


## INSTALLATION STEPS



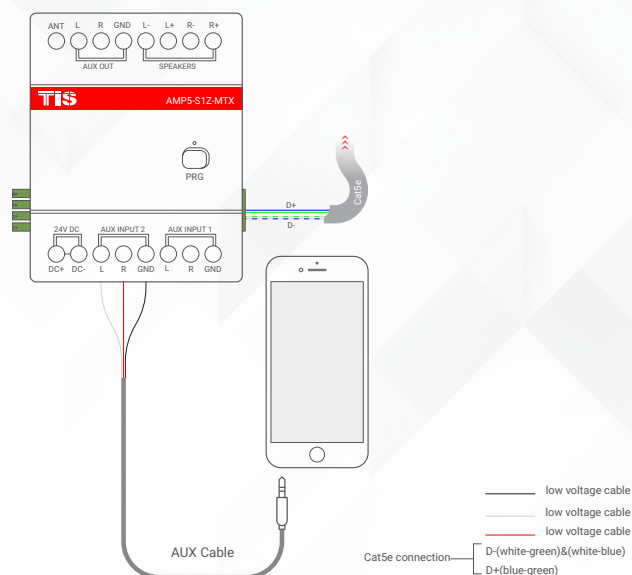
### CONNECTING TO AUXILIARY OUT

Connect RCA left and right input of 3rd-party amplifier to module's Auxiliary output L, R, and GND terminal.



### CONNECTING TO AUXILIARY 1 AND 2 INPUT

Connect RCA left and right output of 3rd-party player to module's auxiliary input 1 or 2 L, R, and GND terminal



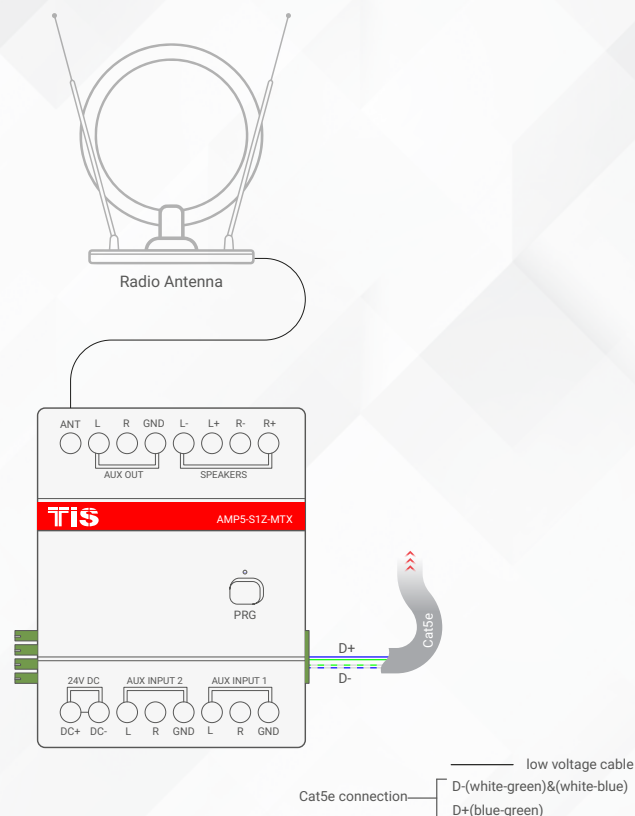


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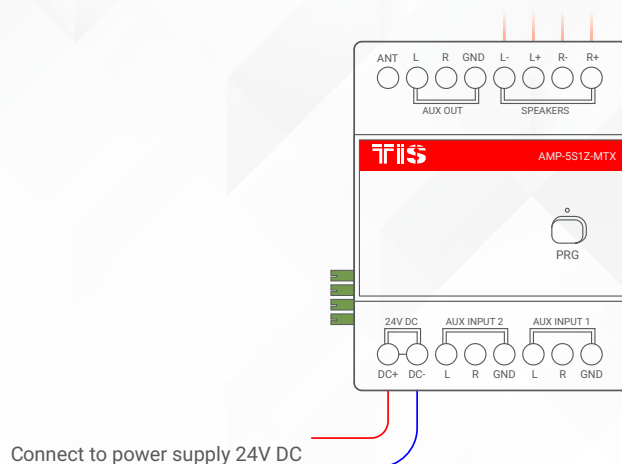
### CONNECTING ANTENNA WIRE

Connect any wire to antenna to bring the single; if wire is going to roof or outdoor, it will get a better signal for FM radio.



### CONNECT 24V DC

Connect 24V power supply wires to DC+ DC- terminal of the module. It is recommended to use separate power supply for the amplifier to be different than the TIS-BUS power supply of the network. Also, it is recommended to not loop the 24V amplifier to another TIS-BUS network.



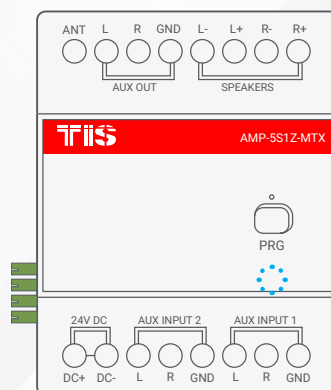




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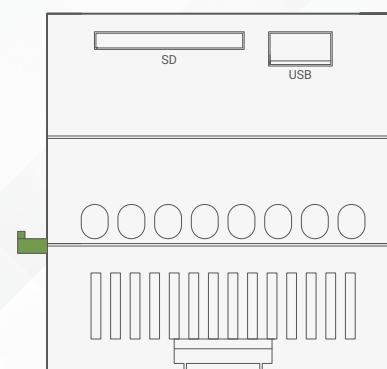
5»

Turn on TIS Power Supply. The module's PRG LED should start blinking.



6»

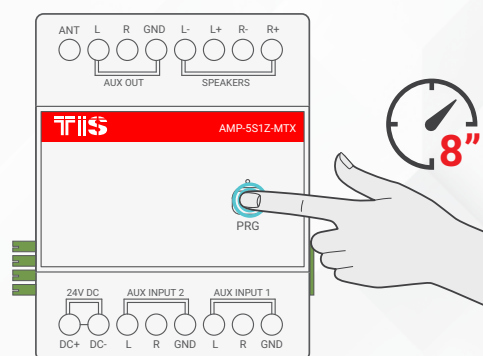
Insert USB or SD card containing MP3 tracks to play it. Each folder is considered an album, and each MP3 file is considered a track. Try not to create folders inside folders, and do not put files in the root directory.



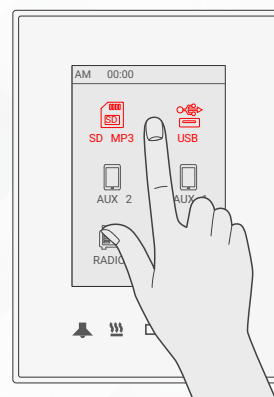
## PAIRING (MANUAL PROGRAMMING)

To pair the module to the application as a server gateway:

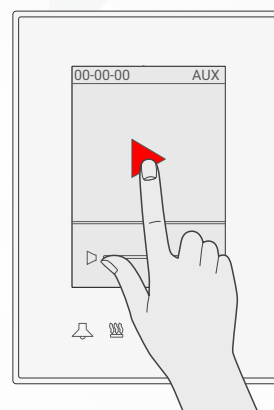
- 1» Long press the PRG buttons for 8 seconds. The PRG LED indicator will start blinking.



- 2» On the music page of any wall panel with the music function, press the play button on radio or USB/ SD card source.



- 3» Wait a few seconds and then try to play the source; The amplifier should react to the panel commands.





## TROUBLESHOOTING



**PRG Button Blinks Red Color Rapidly**

**Reason:** The module's address conflicts with another device in the TIS network. You need to press and hold the PRG button for 6 seconds so the module can get a new address.



**Device PRG LED is not Blinking; Device not Powered**

**Reason:** Device is not powered on; no TIS-BUS 24V supply connected to the device.



**Wall panels can't Pair with the Device**

**Reason 1:** TIS-BUS connection has a problem; check the wires and make sure there's not a short in the connection.

**Reason 2:** Manual programming function disabled in the device (default is enabled).



**Wall Panels can't Control the Device Channels**

**Reason 1:** TIS-BUS connection has a problem; check the wires and make sure there's not a short in the connection.

**Reason 2:** Programming address is wrong.



**No sound on connected speakers**

**Reason 1:** Check the speakers' wires connection.

**Reason 2:** The volume control is set to minimum.



**Track name is not appearing**

**Reason:** The MP3 file name is not written in Standard English letters or numbers.



**When track finishes, it will not play the next track automatically**

**Reason:** The device's play mode is set to "play once" option; change it to play all.



**Radio signal is weak**

**Reason:** The antenna wire in the metal encloser or inside indoor area has weak signal coverage.



**When sound is amplified, it is interrupted.**

**Reason 1:** A 24V power supply is not enough. It is better to use a 24V 2.5Amp power supply.

**Reason 2:** Too many speakers are connected in a such way that their ohms do not fit with amplifier ohms.