

Adding a 3rd Variant/HVIN to existing certification under FCC ID: O7V-MA104210.

Applicant Monitor Audio Ltd – EUT Name Caspian 4G Streaming Pre-Amplifier

Similarities & differences document:

The existing Certification under FCC ID: **O7V-MA104210** was for two models numbered products:

The Caspian 4G Streaming Amplifier whose model is “Streaming Amplifier” and,

The Caspian 4G Integrated amplifier whose model is “Integrated Amplifier”.

The Applicant Monitor Audio now wish to add a 3rd model to the certification please, the Radios and antennas within the device have not changed at all in anyway. Only Left & Right Audio amplifier p.c.b’s, the associated PSU and transformer and speaker outputs have been removed. The 3rd variant has a slightly modified back plane to remove the left and Right speaker output connectors from the back plane at each end (see diagram/photos)

The 3rd Variant model is the “Streaming Pre-Amplifier” and is proposed to have its Bluetooth Classic radio tested to 15.247 Issue 4 for TX Radiated emissions including band edges and TX output power for the worst case/highest powered Bluetooth mode DH5 only to verify the Bluetooth classic radio has not been affected in any way by the removal of the p.c.b’s mentioned above. The two pre-approved radio modules used are also proposed to be on during the limited radiated emissions testing, to re-affirm that that no intermodulation emissions are present.

All other EMC requirements (47 CFR 15B) will be tested/addressed for this new 3rd model.

RF Exposure is not expected to change as the radios have not changed.

I will be acting as Agent during this certification and enclose a copy of my authority to act on Monitor Audio Ltd’s behalf (which will also be uploaded with the certification). Thank you for your time in advance on this matter.

Regards, Daniel Sims (Agent) Kiwa Ltd.

Please see below for a comparison of the changes between the new 3rd Model “Streaming Pre-Amplifier” and the existing fully populated Model “Streaming Amplifier”:

Caspian 4G Streaming Amplifier:
Front view



Caspian 4G Streaming Pre-Amplifier:
Front view



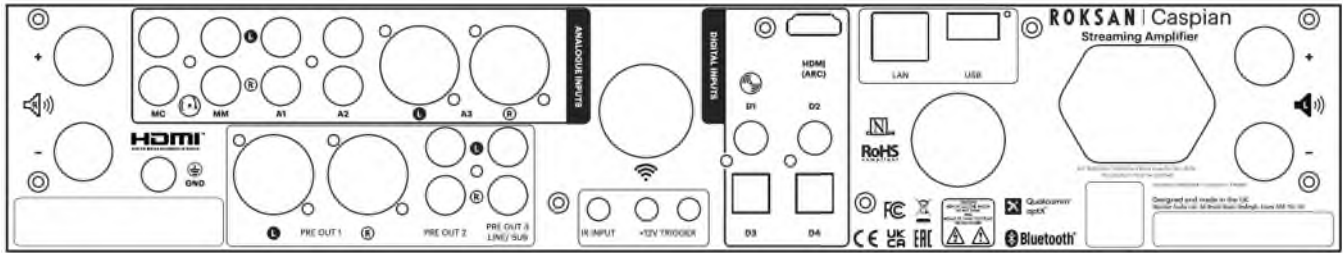
Caspian 4G Streaming Amplifier:
Rear view



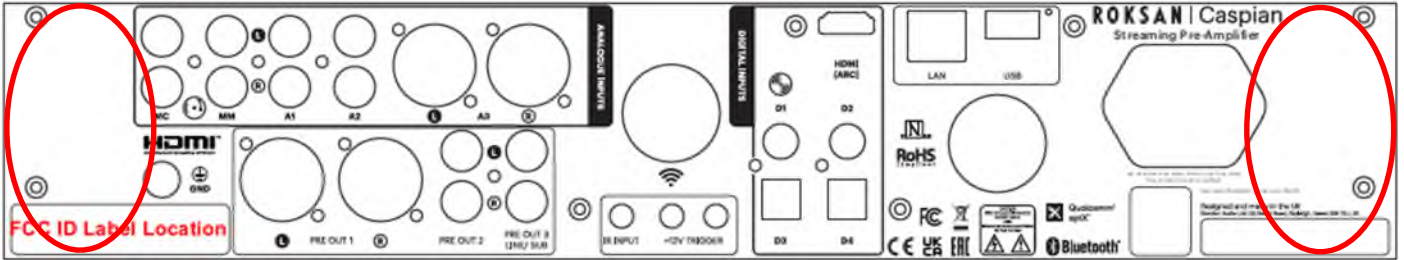
Caspian 4G Streaming Pre-Amplifier:
Rear view



Caspian 4G Streaming Amplifier:
Back Panel Artwork (Fully populated/ fitted)

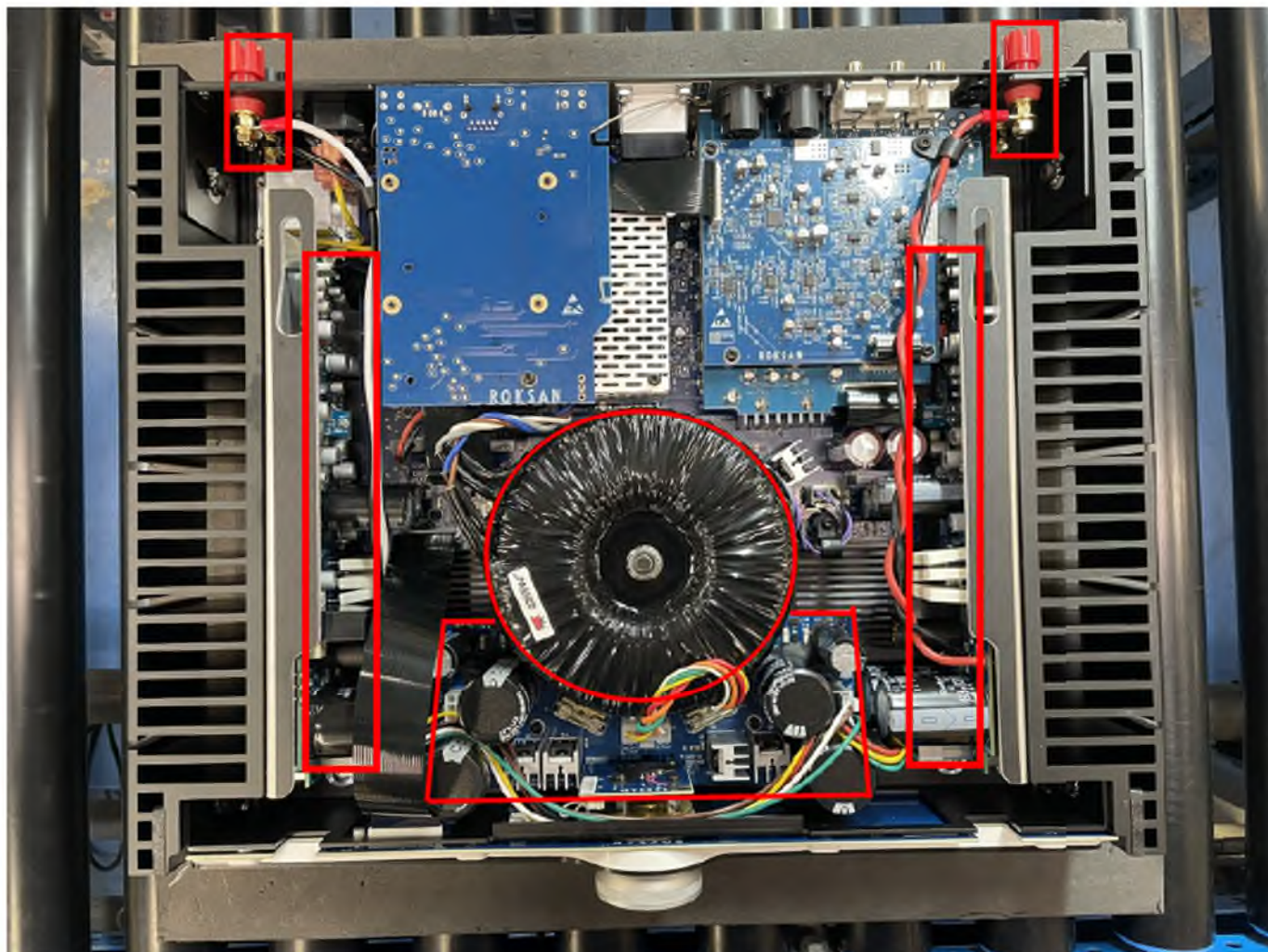


Caspian 4G Streaming Pre-Amplifier:
Back Panel Artwork (Left/Right audio/speaker sockets not fitted)



Highlighted red are the pcb boards & connectors removed and also the PSU & transformer size reduced compared to Streaming Pre-Amplifier on the next page

Streaming Amplifier



Parts REMOVED from Streaming Amplifier

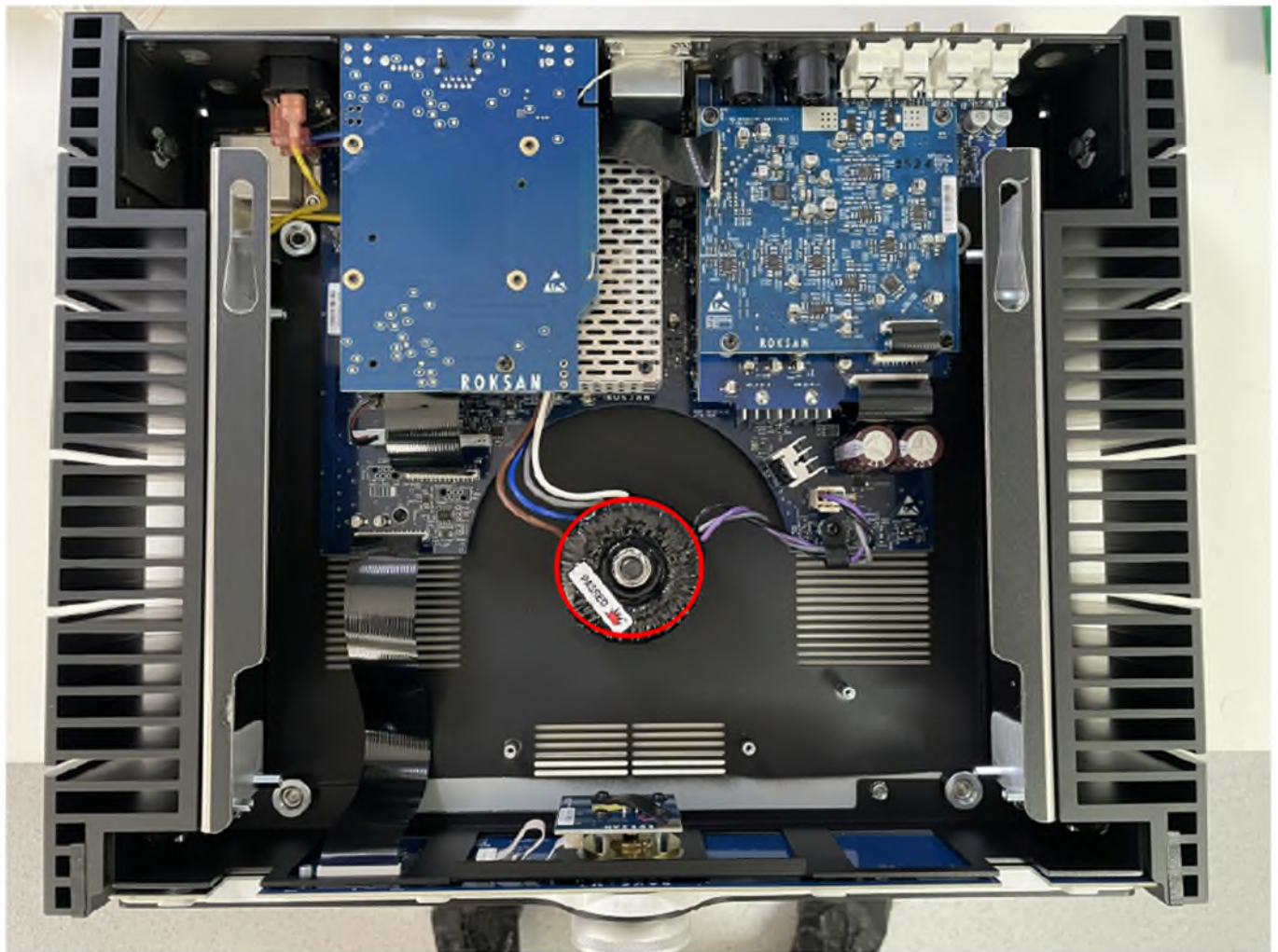
- Right & Left Power Amplifier PCB's and cables
- Unregulated PSU PCB—Supplied power from Transformer to Power Amplifiers
- Speaker Outputs

Parts CHANGED from Streaming Amplifier

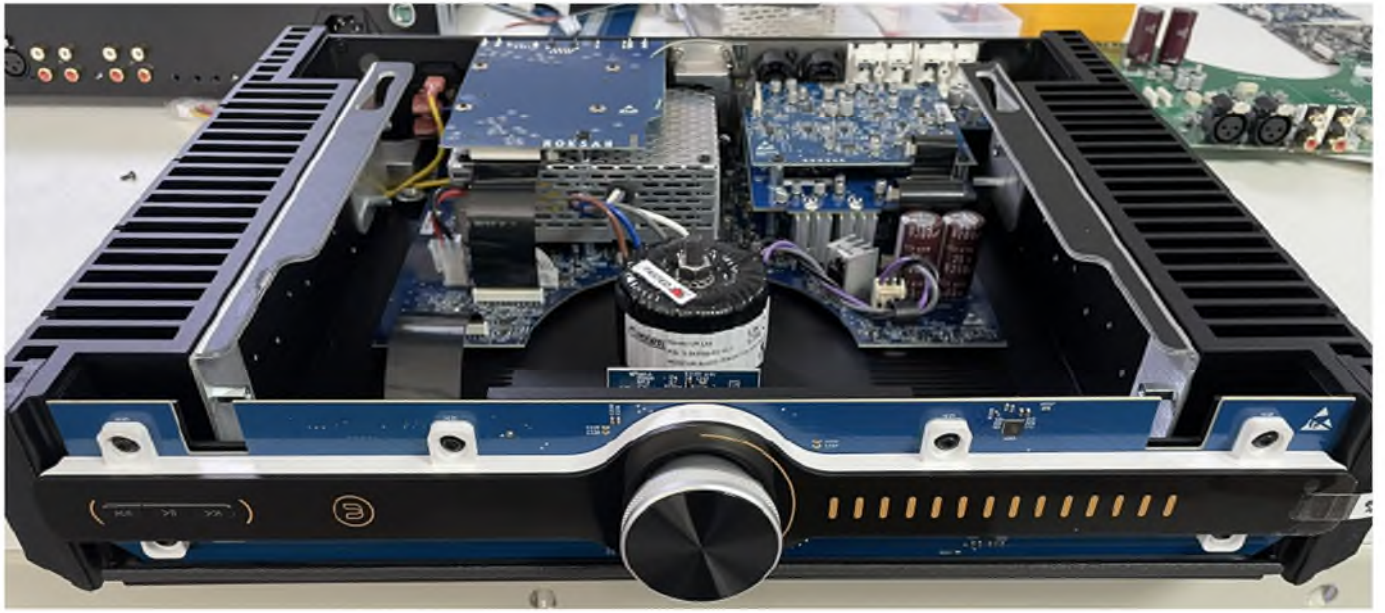
Transformer—See below design differences. Schematics aligned with above photos.

Transformer TI-243700		Iss: 2	Date 28/10/2024
1 Swt 140mm 22AWG •	• Blk 125mm 22AWG 1	16.9V No Load	
115V		15.0V 1A	
50Hz			
P1			
3 Blu 140mm 22AWG	Gry 125mm 22AWG 2	0V	
0V			
5 Gry 140mm 22AWG •	Vio 125mm 22AWG 3	15.0V 1A	
115V		16.9V No Load	
P2			
7 Whi 140mm 22AWG			
0V			

Streaming Pre-Amplifier



Streaming Pre-Amplifier



Streaming Amplifier

