



Global Product Certification
EMC-EMF-Safety Approvals

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To:	Certification Manager – TIMCO Engineering		
From:	EMC Technologies Pty Ltd	No. of pages:	1
EMC Ref:	M141233 (Model BBSE)	Date:	10 August 2015
Subject:	FCC C2PC application – Timco job 1367AAC15, 1367BAC15		

C2PC Application:

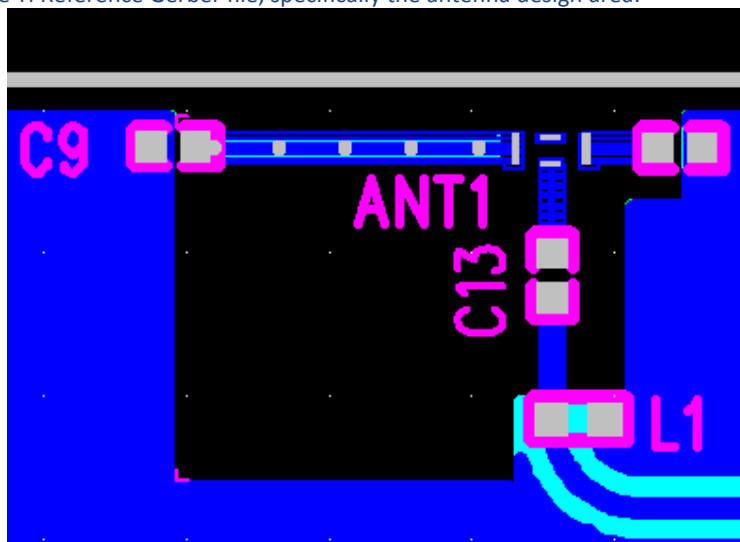
This Class II Permissive Change is to integrate Texas Instrument's module Z64-WL18SBMOD with Telegesis module S4GEM35XB into Embertec Pty Ltd's Emberpulse Home Display/Automation Device, Model BBSE.

Item 8. FCCID Z64-WL18SBMOD - Host antenna circuit trace layout design: Revised cover letter and reply indicate that device uses a PCB mounted antenna identical to that on the approved TI development PCB. However, the internal photos show that layout is not identical. You will find below the photos of the antenna circuit trace layout design in original filing and in C2PC. KDB996369 states that different antenna length and shapes affect radiated emissions and each design shall be considered a different type. Please explain compliance with KDB996369 Answer 11. Page 12.

Host Device Manufacturer response:

The antenna design is identical. While the track (from the module to the antenna) in our design is a different length to what is in the TI design, it is a 50 Ohm impedance, which is the key design parameter for this track. Note this is not part of the antenna itself.

From the TI Reference Gerber file, specifically the antenna design area:



And here is the antenna design from our gerber file:

