L7 Entry

Multi Media radio with Infineon Bluetooth Module on Main Board

HW-Version	C3
BT module-Version	V2.01

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Released by					
Role	**Name**	**Department**	**Date**	**Loca-tion**	**Signature or E-Sign-ID**
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Reviewed by			*(see Review Log, P730006FFF)*		
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History of Content Changes				
Version	**Status**	**Date** dd-Mmm-YYYY	**Document Owner, Department**	**Changed by: Changes / Requested by** *(e.g. CR-number)*
a01	[draft]	28-Oct-2010	Frank Born, I IC RD G HW D2	First draft
a01	[released]	04-Nov-2010	Frank Born, I IC RD G HW D2	
a02	[released]	01-Dec-2010	Frank Born, I IC RD G HW D2	Document update
a03	[released]	14-Feb-2011	Frank Born, I IC RD G HW D2	Add picture with removed Bluetooth shielding
a04	[released]	28-Feb-2011	Frank Born, I IC RD G HW D2	Picture update with removed PCB mounting bracket

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Table of contents

13 # 1 Summary

14 ## 1.1 Introduction

15 This document shows an overview of the L7 Entry system with the internal PCB's.

16 The L7 Entry is a multi media radio for the customer BMW with an on board Bluetooth module from Infineon
17 which support the Bluetooth version V2.1+EDR with a data rate up to 3Mbit/s in EDR mode.

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20 ## 1.2 System description

21 The Bluetooth module in the L7 Entry system is implement for audio and data connections with mobile
22 devices like mobile phones.

23 The basic function of the L7 Entry Bluetooth system is the hands free functionality in combination with the
24 car internal loudspeaker and microphone.

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26 The following picture shows the L7 Entry hardware with the housing:

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29 Figure1: L7 Entry, front top view

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2 System overview

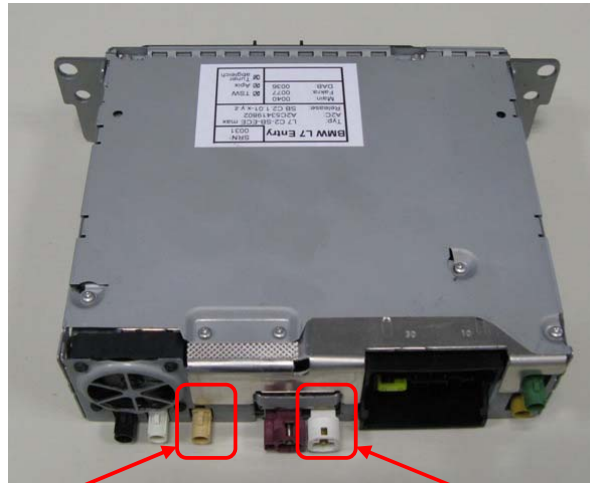The following pictures show the L7 Entry system disassembled down to the Main PCB.

Figure2: L7 Entry backside view

Bluetooth RF
connector

USB
connector

Figure3: top bracket removed, CD drive visible

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Figure4: CD drive and front bracket removed

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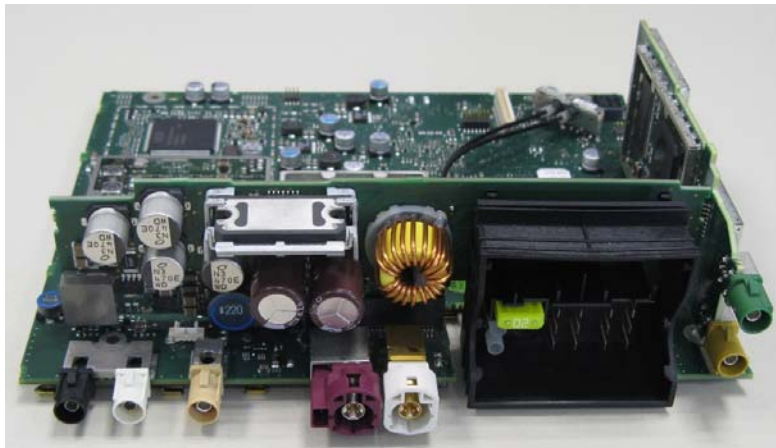
Figure5: rear side view without housing

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Figure6: top view without housing

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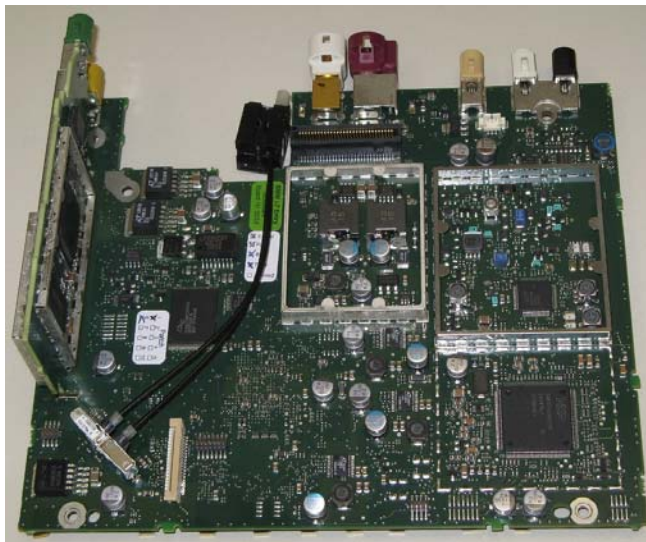
Figure7: Main PCB top view

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Figure8: Main PCB top side view

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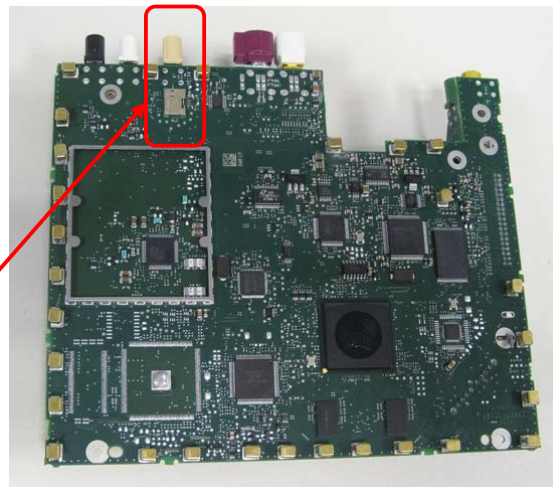
Bluetooth module with RF connector

Figure9: Main PCB bottom view

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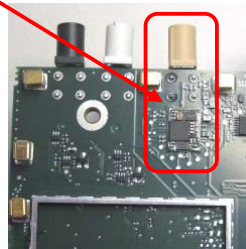104
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110 Figure10: Main PCB bottom view, detail picture of Bluetooth module without shielding
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