SYMEO LOCAL POSITIONING RADAR

Symeo DOC.EDO.000548

Produkt: Symeo LPR-1DHP-350

Difference PLB102932 v1.12 and v1.13

Content

This documentation for the LPR®-1DHP Local Positioning Radar System is published by:

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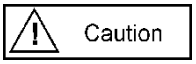
HISTORY

Version	Date	Description
0001	15.11.2022	Initial Release (DB/SR)

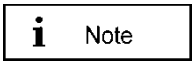
SYMBOLS USED

The following symbols are used throughout the documentation:

This symbol appears before instructions that must be followed at all times. Failure to comply with these instructions will result in personal injury.



This symbol appears before instructions that must be followed at all times. Failure to comply with these instructions will result in damage to equipment.



This symbol appears before information of particular importance.

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1 Difference between Symeo PLB102932 v1.12 and PLB102932 v1.13

These PCBs were used during measurements for certification of Symeo LPR-1DHP-350 (BSX300350).

PLB102932 v1.12 was used during RF measurements; PLB102932 v1.13 was used in samples provides with ESD shielding.

2 Differences

2.1 ESD Diodes

PLB102932 v1.13 has additional surge protection diodes for protecting the Ethernet ports against surge pulses. Additionally, the Ethernet transformer was moved slightly to add space for these diodes.

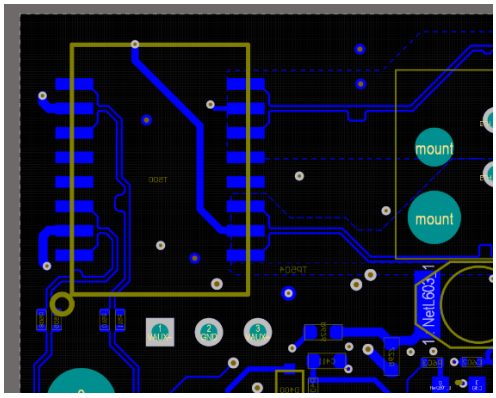

Figure 2: PLB102932 v1.12

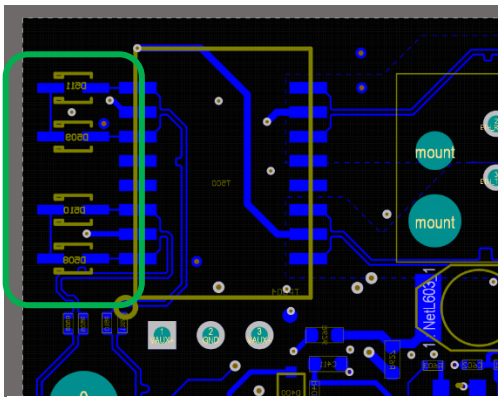

Figure 1: PLB102932 v1.13 w/ additional ESD diodes

Green frames show area of change.

2.2 LED Routing

The routing of the two three-color LEDs was changed because in PLB102932 v1.12 LED colors were mixed up and this was fixed with PLB102932 v1.13.

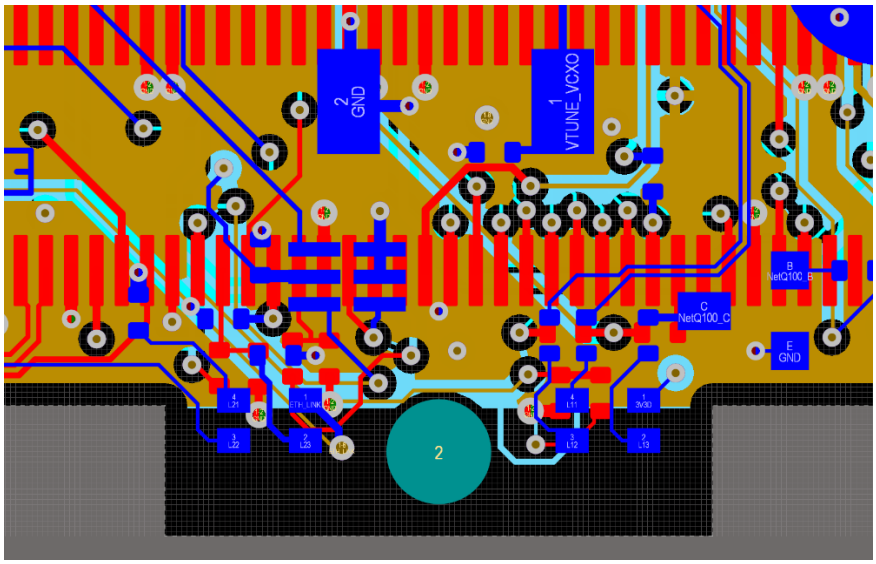

Figure 3: LED routing v1.12

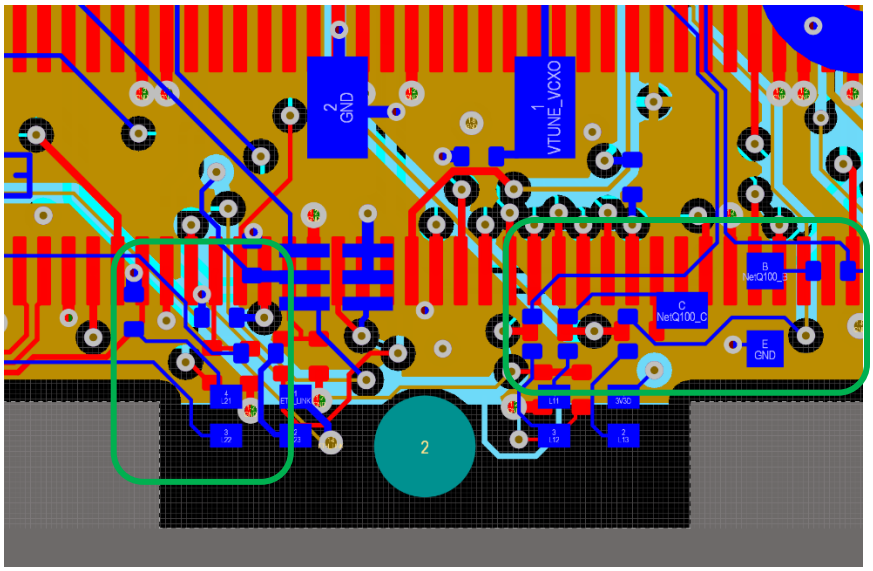

Figure 4: LED routing v1.13

2.3 Changed LDO

The LDO for the analog supply voltage 3V3A was changed to a different type.

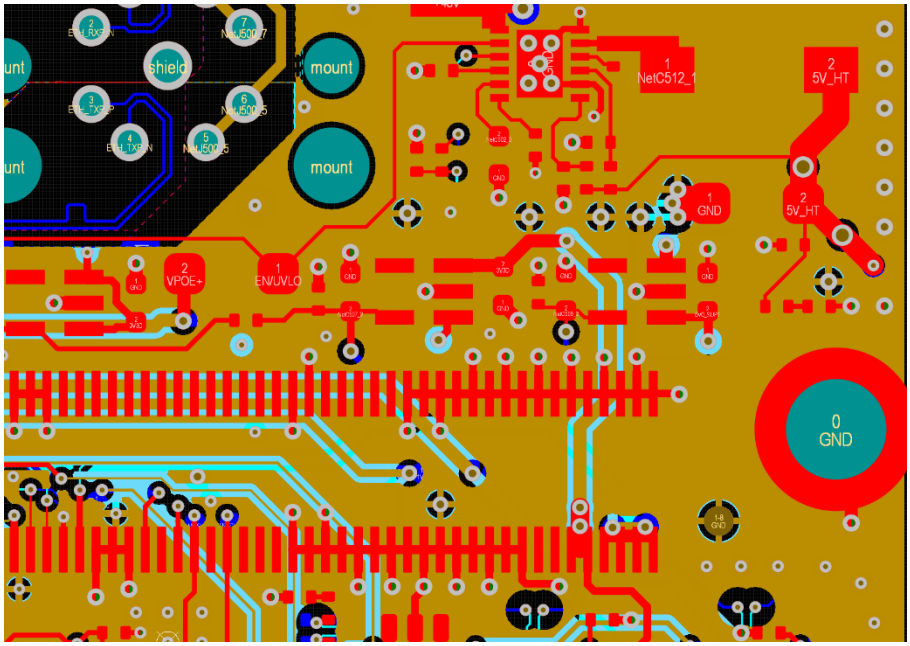

Figure 5: PLB102932 PSU layout

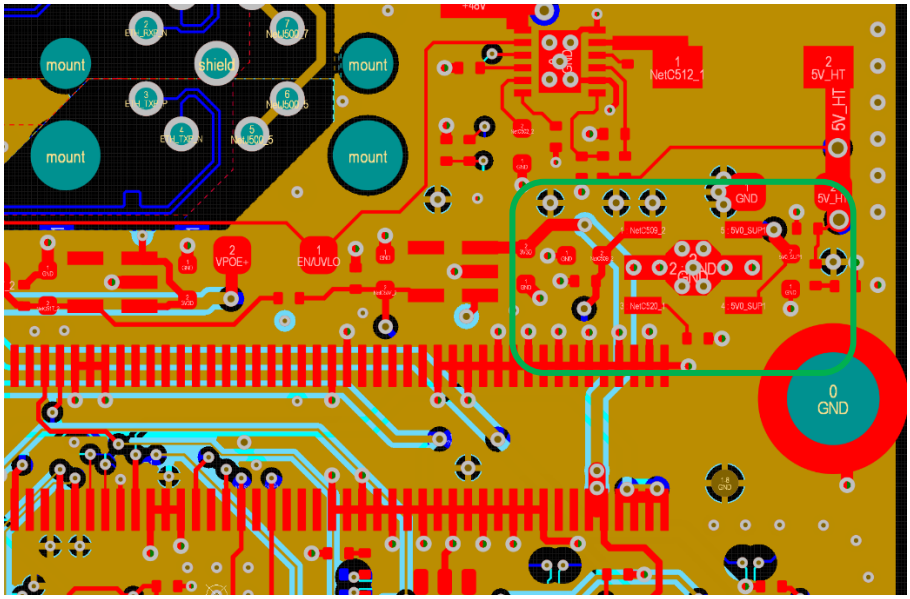

Figure 6: PLB102932 v1.13 with changed LDO

3 Housing

3.1 Plastic color

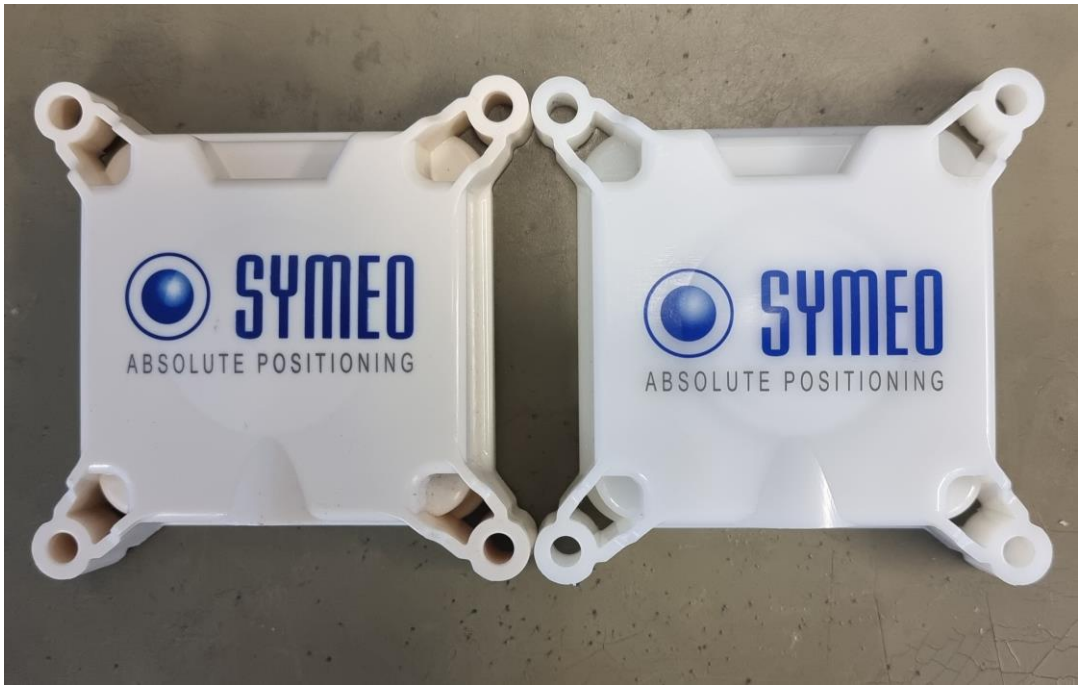

Figure 7: The housing on the right hand side has better LED visibility

Dying of the housing was changed to improve visibility of the LEDs. The housing on the right hand side has less dye added for better LED visibility.

3.2 ESD shield

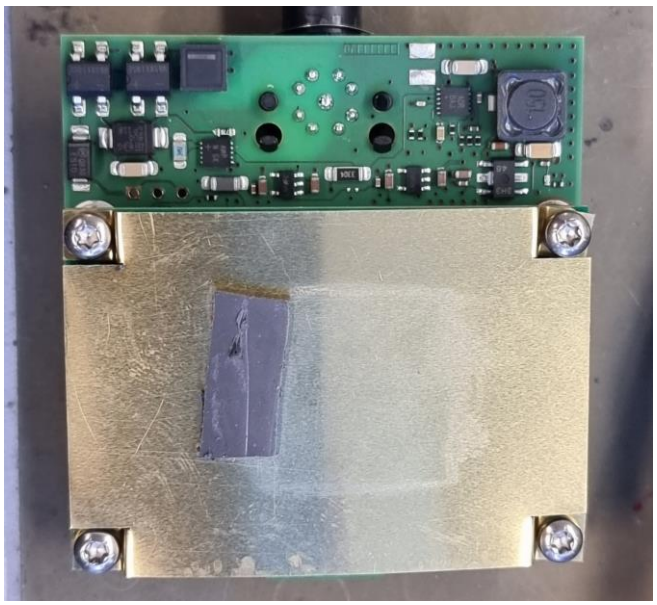

Figure 8: Shield ontop of processing board PLB102266

For improving ESD robustness a shield was added above the CPU board.