Report
of the
Functional Safety
Audit

Manufacturer:
Texas Instruments Incorporated
12500 TI Boulevard
Dallas, Texas 75243
USA

Report No.: TD88390T
Revision 1.2 of 2016-03-24

TÜV SÜD Rail GmbH
Ridlerstraße 57
D-80339 München

Certification Body:
TÜV SÜD Product Service GmbH
Ridlerstraße 65
D-80339 München
Germany

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Revision Log

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<td>P. Weiß, M. Ramold</td>
<td>2013-02-25</td>
<td>Initial draft</td>
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<td>P. Weiß, J. Blum</td>
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<td>P. Weiß, A. Köhnen</td>
<td>2013-03-24</td>
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Type of the Audit: Functional Safety Audit


Contact person of Texas Instruments Incorporated: Mr. Abhishek Arora

Lead-Auditor/Auditor: Peter Weiß, Axel Köhnen, Matthias Ramold

Scope of the Audit: SafeTI™ Functional Safety Hardware Development

Locations of the Audit:
- Texas Instruments
  - 12500 TI Boulevard
  - Dallas, Texas 75243

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1 Purpose of the Report and Subject of the Assessment

1.1 General

The present report includes the generic result of the audit on the Functional Safety Development System documentation of the Texas Instruments Incorporated carried in March 2016. The Project No. related to this assessment was as follows: 717512483.

1.2 Scope of the Assessment

The scope of the assessment was a basic Functional Safety development process for hardware components to be compliant with the standards listed in chapter 2. This generic process is a companywide valid approach that specifies the procedure for the Functional Safety development for hardware components marketed as SafeTI-61508 or SafeTI-26262.
2 Basis of the Assessment

The assessment and the audit were based on the following standards:

| ISO 26262-5:2011 | Road vehicles - Functional safety - Part 5: Product development at the hardware level |
| ISO 26262-7:2011 | Road vehicles - Functional safety - Part 7: Production and operation |
| ISO 26262-8:2011 | Road vehicles - Functional safety - Part 8: Supporting processes |

Table 2: Standards Functional Safety
3 Documents provided for the Audit

The audit was based on the following documents:

<table>
<thead>
<tr>
<th>No.</th>
<th>Title</th>
<th>Document-No./ File identifier</th>
<th>Revision</th>
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<tr>
<td>[D1]</td>
<td>QRAS AP00210</td>
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<td>2013-02-14</td>
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<td></td>
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<td>SafeTI™ Functional Safety Hardware</td>
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Table 3: Audit Documents provided from Texas Instruments Incorporated
4 Related documents

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<tr>
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Table 4: Related Documents
5 Performance and result of the audit

The results of the audit were documented by the following documents:

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<td>[R1]</td>
<td>Checklist FSM IEC 61508</td>
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Table 5: Audit Organization Documents
6 Execution of the Audit

6.1 General approach

The audit was executed according to the audit agenda using the checklists [R1] - [R4] as guidance. The Functional Safety Development aspects as described by the standards listed in chapter 2 were audited. The technical inspection of safety-related products or product documentation was not part of the audit.

6.2 Overall Result

The SafeTI-61508 and / or SafeTI-26262 Functional Safety development process for hardware as defined in [D1] is assessed suitable for development of IEC 61508 compliant items up to SIL 3 and ISO 26262 hardware components up to ASIL D.

The correct implementation and compliance of the Functional Safety development process has to be verified for each safety related product or project.

The Functional Safety Development certificate is valid for three years. An annual re-audit is necessary for the duration of the certificate. The re-audit can be compensated if a new or ongoing safety-related program/project is executed together with TÜV SÜD. Changes in the certified Functional Safety Development System must be reported to TÜV SÜD.

München, 2016-03-24

A. Köhnen
Project Manager

P. Weiß
Review
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### Applications

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