**XC2300 and CIC61508**

Cost-Optimized Safety Computing Platform

The implementation of ISO26262 / IEC61508 Std. compliant Safety Critical Systems requires an independent robust safety watchdog for main microcontroller supervision.

Thus microcontroller based safety systems, must be made of 3 components:
- **Main Microcontroller**
- **Independent watchdog with robust monitoring channels**
- **Supporting safety Software**

With its SAFETY COMPUTING PLATFORM Infineon covers all of these 3 needed components. The XC2300 MCU family. The CIC61508 an independent robust watchdog. Plus the SafeTcore safety library.

All 3 components were specified and developed for efficient implementation and fast time to market.

Typical target applications of Infineon's safety computing platform are IEC61508/SIL3 and ISO26262/ASILC-ASILD applications.

**Key Supporting SIL Features**
- Robust monitoring channel with up to 3 selectable safety control paths
  - Internal test scheduler/sequencer
  - Supply monitor
  - System shut down
- Monitoring of processor functionality to ensure correct computation of user's process monitoring software
  - Self tests software covering CPU, memories and peripherals
  - Integration path for user defined application tests
  - Redundant switch-o path
- Independent safety monitor software
  - Task monitor (scheduling, timing protection)
  - Data Verifikation Unit

**Customer Benefits**
- Fast time to market due to Infineon's proven in use safety concept
- Comprehensive safety documentation
- Intelligent error management avoids false alarm and therefore reduced FIT/DPPM rate
- Scalable platform guarantees optimized cost-performance ratio
- Supports ASIL-requirements

[www.infineon.com/sil](http://www.infineon.com/sil)
XC2300 and CIC61508
Powerful Safety Computing Platform

ATTENTION PLEASE!
The information given in this document shall in no event be regarded as a guarantee of conditions or characteristics (“Beschäfungs- garantie”). With respect to any examples or hints given herein, any typical values stated herein and/or any information regarding the application of the device, Infineon Technologies hereby disclaims any and all warranties and liabilities of any kind, including without limitation warranties of non-infringement of intellectual property rights of any third party.

WARNINGS
Due to technical requirements components may contain dangerous substances. For information on the types in question please contact your nearest Infineon Technologies Office (www.infineon.com).

INFORMATION
For further information on technology, delivery terms and conditions and prices please contact your nearest Infineon Technologies Office (www.infineon.com).

Published by
Infineon Technologies AG
85579 Neubiberg, Germany
© 2011 Infineon Technologies AG.
All Rights Reserved.
Visit us:
www.infineon.com

Order Number: B158-H9679-X-X-7600
Date: 01 /2012