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Offenbach, 2011-06-10

Ihr Zeichen Gerrit De Waard Ihr Schreiben 2010-11-04

Unser Zeichen - bitte angeben 5013596-4970-0001/146307 FG23/swa-kat Ansprechpartner Herr Schwab Tel (069)

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PRÜFBERICHT zur Information des Auftraggebers

Test Report for the Information of the applicant

Produkt / Product:

- Mikro-Controller Software Selbstdiagnose-Bibiliothek für die Cortex M0 Familie
- SW selftest library for the M0 microcontroller family

Typen / Types:

LPC1100, LPC11C00, LPC11U00, LPC1200.

Sehr geehrte Damen und Herren,

dieser Prüfbericht enthält das Ergebnis einer einmaligen Untersuchung an dem zur Prüfung vorgelegten Erzeugnis. Ein Muster dieses Erzeugnisses wurde geprüft, um die Übereinstimmung mit den nachfolgend aufgeführten Normen bzw. Abschnitten von Normen festzustellen. Die Prüfung wurde durchgeführt von 2011-05-30 bis 2011-05-31.

This test report contains the result of a singular investigation carried out on the product submitted. A sample of this product was tested to found the accordance with the thereafter listed standards or clauses of standards resp. The testing was carried out from 2011-05-30 to 2011-05-31.



EIN UNTERNEHMEN DES VDE VERBAND DER ELEKTROTECHNIK ELEKTRONIK INFORMATIONSTECHNIK e.V.

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Der Prüfbericht berechtigt Sie nicht zur Benutzung eines Zertifizierungszeichens des VDE und berücksichtigt ausschließlich die Anforderungen der unten genannten Regelwerke.

The test report does not entitle for the use of a VDE Certification Mark and considers solely the requirements of the specifications mentioned below.

Wenn gegenüber Dritten auf diesen Prüfbericht Bezug genommen wird, muss dieser Prüfbericht in voller Länge an gleicher Stelle verfügbar gemacht werden.

Whenever reference is made to this test report towards third party, this test report shall be made available on the very spot in full length.

Beschreibung / Description

l Beschreibung Description	 Software Selbstdiagnose-Bibiliothek für die Cortex M0 Familie: LPC1100, LPC11C00, LPC11U00, LPC1200. SW selftest library for the M0 microcontroller family LPC1100, LPC11C00, LPC11U00, LPC1200.
II Standards	 IEC 60335-1:2001 (4.2 Edition) (incl. Corrigendum 1:2002) + A1:2004 + A2:2006 (incl. Corrigendum 1:2006) Annex R Table 11.12.7 and/or EN 60335-1:2002 + A1:2004 + A11:2004 + A12:2006 + A2:2006+ A13:2008 + A14:2010 - Annex R Table 11.12.7 EN 60730-1: 2009 Annex H Table 11.12.7 IEC 60730 Ed. 3.2: 2007-03 Annex H Table 11.12.7
III Hersteller <i>Manufacturer</i>	 NXP Semiconductors Gerstweg 2 6534 AE NIJMEGEN
IV Identifikation Identification	 Version 1.0 Version 1.0 Einsatzbereich ist die Cortex M0 Serie Intended for usage with the cortex M0 series Designed für die folgenden Kompiler: ARM / IAR / GNU Designed for the following compilers: ARM / IAR / GNU
V Selbstdiagnose Funktionen Selftest functions Start bibiliothek Startup Library	 Register test (Schreiben - Lesen – Vergleichen) Register test (read/write compare) Programmzähler Test (Insel / Sprung) Program counter test (island / jump) RAM Test (March bitweise/ bitwise) Diverse Methoden zur CRC Berechnung (voll) mit Hardware Unterstützung Various methods for full CRC calcualtion (CRC 16 Bit / 32 Bit) with hardware support





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VI Selbstdiagnose Funktionen Selftest functions VII Laufzeit Bibiliothek Runtime Library	 Register test (Schreiben - Lesen – Vergleichen) Register test (write - read - compare) Interrupt Überwachung Interrupt supervision RAM Test – March, bitweise / bitwise) Clock test (Vergleich – mainclock zu RTC peripherie clock) Clock test (comparison – mainclock to RTC peripheral clock) Diverse Methoden zur CRC Berechnung (Blockweise) mit Hardware Unterstützung Various methods for byte wise CRC calculation (CRC 16 Bit / 32 Bit) with hardware support.
VIII Watchdog	 Im Watchdog Register kann die "Ursache des letzten Reset" ausgelesen werden, was vorteilhaft für einen Initialen WD Selbsttest (innerhalb der finalen Applikation) ist The "source of last reset" can be read from the watchdog registers, this can be useful to implement an initial WD self test in the final application Der Watchdog muss durch eine spezielle Sequenz von Instruktionen getriggert werden The Watchdog needs a certain instruction sequence to get retriggered Der Watchdog kann nur durch eine spezielle Sequenz deaktiviert werden. The Watchdog can only be disabled by a certain instruction sequence –once it is enabled Type LPC1200 Der Watchdog ist ein Fenster Watchdog
VIIII Bemerkungen <i>Remarks</i>	 The Watchdog is a window watchdog Die Maßnahmen decken die Anforderungen nach Tabelle H.11.12.7 nicht vollständig ab – zusätzliche Funktionen z.B. zur Programmablauf Überwachung sind evtl. nötig um die finale Applikation zu abzudecken. The mentioned routines do not completely cover the requirements of table H.11.12.7, additional functions may be necessary to cover f.i. the programme sequence monitoring in the final application.
X Benutzung <i>Usage</i>	 Die Module sind zur Einbindung in eine übergeordnetes Selbstdiagnoseprogramm vorgesehen, welches vom Hersteller der Steuerung zur Prüfung vorzulegen ist. Musteranwendungen zur Nutzung sind beigefügt. The modules are intended to be included in a supervisory









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	self diagnostic program which has to be presented for approval by the manufacturer of the electronic control. • Usage example units are included.
XI XII	Die geprüften Module erfüllen die Anforderungen gemäß der unter II genennten Brüfbestimmungen
	der unter II genannten Prüfbestimmungen.
Ergebnis Result	 Die Einbindung der Module ist in der jeweiligen Applikation zu prüfen.
	 The tested modules fulfil the requirements according the test specifications referred in chapter II.
	The implementation of the modules has to be tested in each application.
	 Durchgeführt wurde ein Review der Spezifikation, des Quellcodes sowie Tests am In-Circuit Emulator / Debuger am 31.05.2011
	The specification doc and source code was reviewed and tests have been carried out on the in-circuit emulator / debugger on 31.05.2011
XIII Fehlerabdeckung	Die Fehlerabdeckung entspricht den Anforderungen nach Tabelle H 11.12.7
Diagnostic coverage	The diagnostic coverage fulfils the requirements of Table H 11.12.7

Funktionsliste / Function List

ODII ve eletevite et	<pre>void _CPUreqTestPOST(void);</pre>
CPU register test	
	<pre>type_testResult IEC60335_CPUregTest_BIST(void);</pre>
	<pre>void _CPUregTestLOW(void);</pre>
	<pre>void _CPUregTestMID(void);</pre>
	<pre>void _CPUregTestHIGH(void);</pre>
	<pre>void _CPUregTestSP(void);</pre>
Program counter test	<pre>type_testResult IEC60335_B_PCTest_POST(void);</pre>
1 regram ecunter test	<pre>type_testResult IEC60335_B_PCTest_BIST(void);</pre>
Interrupt test	void IEC60335_InitInterruptTest
michapi toot	
	<pre>type_InterruptTest *pIRQ,</pre>
	UINT32 lowerBound,
	UINT32 upperBound,
	UINT32 individualValue
).
Ola ali avratava ta at	void IEC60335 initClockTest
Clock system test	void lecoussi_initelocklest
	TITAMAN A AMARANA MARANA MARAN
	UINT32 timerOccThreshold,
	UINT32 rtcOccThreshold,
	UINT32 timerLowerBound,
	UINT32 timerUpperBound
	type_testResult IEC60335_Clocktest_MainLoopHandler(void)
	<pre>void IEC60335_Clocktest_TimerIntHandler(void)</pre>
	<pre>void IEC60335_Clocktest_RTCHandler(void)</pre>
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(INT32 startAddr, UINT32 length, FlashSign_t *ResultSign); void StartSoftSignatureGen (UINT32 startAddr, UINT32 length, FlashSign_t *ResultSign); type_testResult IEC60335_FLASHLestMISR_BIST (UINT32 startAddr, UINT32 startAddrs, UINT32 startAddrs, UINT32 length, UINT32 length, UINT32 length, UINT32 pat, UINT32 pat, UINT32 pat, UINT32 startAddrs, UINT32 length) type_testResult IEC60335_RAMtest_BIST ((UNT32 startAddrs, UINT32 length) type_testResult IEC60335_RAMtest_BIST ((UNT32 startAddrs, UINT32 length)	DOMALLA	void StartHardSignatureGen
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<pre>type_testResult IEC60335_RAMtest_BIST (UINT32 startAddrs, UINT32 length)</pre>		· ·
(UINT32 startAddrs, UINT32 length)		UINT32 length
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		UINT32 length
<pre>void _RAMTestPOST (void);</pre>		<pre>void _RAMTestPOST (void);</pre>







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FG23/swa-kat

Best regards

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