Product Name	XC800 LIN Slave Package for Lin 2.0/2.1 Standards
Release Version	2.0
Type Of Release	Production Release
Name of the Supplier	Infineon Technologies AG
Mode of Release	Infineon Security Server
Date of Release	19-Sep-2011
Previous Version	1.1

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1 Released Items

1.1 XC800 LIN Package

This section contains the files available within this package. The functionality is explained below.

File Name	Version	Description
LIN_core.c	1.0.3	Lin Protocol Implementation. This file provides the interfaces compliant to Lin standard, specification 2.0 and 2.1
LIN_core.h	1.0.0	
Lin_protocol.c	1.1.6	ISR Routines and State Machine Implementation
LIN_protocol.h	1.0.1	
Compiler.h	1.0.0	The compiler abstraction layer for LIN driver. It contains compiler specific definitions.
Lin_Diag.c	1.1.1	Lin Diagnostics Layer and Transport Protocol Services
Lin_Diag.h	1.0.1	
Lin_idl.c	1.1.1	The Device dependent Layer for the package. This file contains the definition and implementation for various system and HW module functionalities and
Lin_Idl.h	1.1.0	
SFR8.c	1.1.0	SFR abstraction Layer
Defines.h	1.0.1	File for Common #defines
Lin_IIL.h	1.0.1	Main Include file for Lin driver
XC800_LIN_LLD_UM	1.5	Driver's User Manual

XC800 LIN Support Files

File Name	Version	Description
LIN_LDF.c and h	---	Sample LDF file for slave configuration
LIN_CFG.h	---	Sample CFG file for LIN slave
Lin_FrmRW.c	---	Implementation of API's Lin_frm_rd and Lin_frm_wr. These can be used as Helper API's for the upper layer

XC800 LIN Configuration

File Name	Version	Description
Lin GUI Configurator Tool	1.1	GUI Configuration tool for LDF and driver configuration

2 Tool Information

Compiler Name	Keil v9.02
Compiler Options	---
Processor Platform	XC8xx (XC866, XC886, XC835, XC836,XC878, XC874)
Evaluation Hardware	Easy Kits for above microcontrollers
Other Tools	Debugger : Inbuilt Keil Debugger, DAS v3.0.0
Code Configuration & Generation tool	Manual / via GUI configurator

3 Changes to Previous Version

3.1 Changes to v2.0 from v1.1

No Technical Changes, Formal Declaration of Production Release.

3.2 Changes to v1.1 from v1.0

Issue #	Description	Modified Artifacts	
		Module	Files
AI00060058	Issue: Lin Driver is not proven on XC866	Lin	---
AI00060059	Bugfix: Corrections to Baudrate for passing Sample Point Test	Lin	lin_protocol.c
AI00061000	Issue: Corrections to test setup to pass Lin bit inversion tests	Lin	---
AI00061001	Bugfix: Corrections to Timer 2 ISR to pass Lin Conformance tests for XC866	Lin	lin_protocol.c

3.3 Changes for v1.0

Adapted from TLE9832 LIN Slave LLD v1.2

4 Installation Requirements

- Invoke the installer executable and follow the instructions therein.

5 List of known Issues

Module	Fault Id	Description	Work Around

6 MISRA Violations

Rule number	Deviation/ Violation
1.1 and 2.2	MISRA rule suppressed due to ISR signatures specific to Keil
12.10	MISRA rule suppressed due to usage of assembly instructions
12.7	MISRA rule suppressed due to usage of Keil specific SBIT keyword
12.8	MISRA rule suppressed to ignore the warnings if Interrupt Priority is given as Zero

7 List of Limitations and Deviations

The following table summarizes the most important limitations and deviations with respect to the Requirements Specification.

Module	Limitation / Deviation
LIN	LIN 2.x driver operates in the baud-rate range from 2.4 Kbps to 20 Kbps Only, as against the specified range of 1Kbps to 20 Kbps.