Chip Support Library

Release Notes

TEXAS INSTRUMENTS

Contents

Chip Support Library version 2.1.0.5

Overview

This release of CSL contains peripheral programming (functional and register level) APIs. The list of modules supported in this release is listed in later sections. This set of APIs provides peripheral abstraction that can be used by higher layers of software.

This release includes:
- Compiled library of supported CSL modules for multiple KeyStone II devices
- Source
- API reference guide

New and Updated Features

Table 1   CSL Modules included in this Release

Peripherals	TCI6638K2K/TCI6636K2H/K2L/K2E CSL-RL Available	Comments
AIF 2.1	X	
AT	X	
BCP	X	
BCR	X	
BOOTCFG	X	
CGEM	X	
CHIP	X	
CP_BOOTCFG	X	
CP_INTC 0..2	X	
CP_MPU	X	
CPPI	X	
DEVICE	X	
DDR3/EMIF4 DDR3a (64b) w DDR3a PLL DDR3b (64b) w DDR3b PLL	X	

EDMA	X	
EMAC (SGMII, CPSWITCH, MDIO)	X	
EMIF16	X	
FFTC A/B/C/D/E/F	X	
GPIO	X	
Hyperlink	X	
I2C	X	
IPC	X	
MSMC	X	
NetCP (PASS)	X	
PCIE	X	
PSC	X	
QMSS 1.5	X	
RAC v1.2 A/B/C/D	X	
SA	X	
SEC_MGR		
Smart Reflex 0		
Smart Reflex 1 (ARM)		
Semaphore	X	
SPI 0/1	X	
SPI 2	X	
SRIO	X	
TAC 2	X	
TCP3D A/B/C/D	X	
TIMER64P	X	
UART	X	
USIM	X	
USB	X	
VCP A/B/C/D/E/F/G/H	X	
Tetris	X	
TSIP (For TCI6608T)	X	
XGE (5 Port Switch)	X	
XMC	X	

The following is the naming convention for the various CSL prebuilt library files:

Default Directory	Library Name	Description
`ti\csl\lib\<soc>\c66`	`ti.csl.ae66`	66 ELF Little Endian Library
`ti\csl\lib\<soc>\c66`	`ti.csl.ae66e`	66 ELF Big Endian Library
`ti\csl\lib\\<soc>\c66`	`ti.csl.intc.ae66`	66 ELF Interrupt Controller Little Endian
`ti\csl\lib\\<soc>\c66`	`ti.csl.intc.ae66e`	66 ELF Interrupt Controller Big Endian

Release 2.1.0.5 Updates:

- o IR fixes see Resolved IRs

Release 2.1.0.4 Updates:

- o First release supporting K2L/K2E
- o IR fixes see Resolved IRs
- o Migration /Compatibility Notes from previous release
  - ▪ Qmss_QueueType enum moved to ti/drv/qmss/qmss_qm.h. No change needed in application if QMSS LLD API header file is used

Release 2.0.0.19 Updates:

- o IR fixes see Resolved IRs

Release 2.0.0.18 Updates:

- o IR fixes see Resolved IRs

Resolved IRs

IR Parent/ Child Number	Severity Level	IR Description
SDOCM00112645	Minor	K2L: CSL-RL update for TAC
SDOCM00107193	Minor	CSL-RL update for SERDES default config files
SDOCM00112238	Major	AIF2 4.9G Serdes Configuration File must be updated
SDOCM00112975	Major	Update equalizer settings with programmable attenuation and boost values

Known Issues / Limitations

The release has undergone limited testing on simulator. Current Known issues at the time of release include:

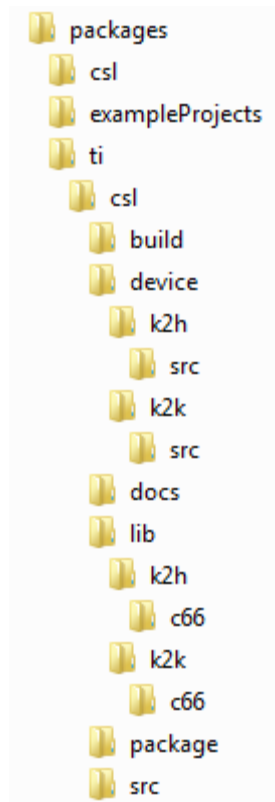| IR Parent/ Child Number	Severity Level	IR Description

Licensing

BSD Licensing

Delivery Package

Package is delivered as full source release in tar format.

Directory Structure

Following is the directory structure after CSL tar package is extracted.

Installation Instructions

Extract the tar package in a destination directory.

Instruction for RTSC getLibs

In order to retrieve CSL library for a device using getLibs following line would be required in RTSC configuration file.

    /* Load and use the CSL package */
    var Csl = xdc.loadPackage('ti.csl.device.k2k.c66');

Replace k2k with the appropriate device name for the library being included

Customer Documentation List

Table 1 lists the documents that are accessible through the **/docs** folder on the product installation CD or in the delivery package.

Table 1   Product Documentation included with this Release

Document #	Document Title	File Name
1	API documentation (generated by Doxygen)	csl/docs/csldocs.chm