DSP/BIOS™ LINK

DM357

LNK 202 USR

Version 1.65

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A. PLATFORM GUIDE

1 Purpose

DSP/BIOS™ LINK is foundation software for the inter-processor communication across the GPP-DSP boundary. It provides a generic API that abstracts the characteristics of the physical link connecting GPP and DSP from the applications. It eliminates the need for customers to develop such link from scratch and allows them to focus more on application development.

This document provides the users necessary information about usage of DSP/BIOS™ LINK on the DM357 platform.

This document corresponds to the product release Version 1.65.

2 Text Conventions

O	This bullet indicates important information. Please read such text carefully.
q	This bullet indicates additional information.
[arg1 | arg2]	In context of the commands, contents enclosed in square brackets are the optional arguments to the command. Different values of these arguments are separated by "|".

3 Terms & Abbreviations

CCS	Code Composer Studio
IPC	Inter Processor Communication
GPP	General Purpose Processor e.g. ARM
DSP	Digital Signal Processor e.g. TMS320C5510
CGTools	Code Gen Tools, e.g. Compiler, Linker, Archiver

4 References

1.	User Guide	DSP/BIOS™ LINK user guide
2.	InstallGuide_<OS>_DM357.doc	Installation guide for relevant OS if present.
3.	Porting Guide	Porting guide for relevant OS if present.

5 Configuring CCS

5.1 DM357 EVM

To use CCS for debugging the DSP side application, you will need to configure CCS to use both ARM and DSP with the DM357 EVM.

- CCS can attach to only ARM in the beginning. It can attach to the DSP only after the ARM-side application releases it from reset through a call to `PROC_Start ()`.

6 Platform specific information

6.1 Boot mode support

DSP/BIOS™ LINK supports both ARM – boot mode as well as DSP – boot mode on DM357.

6.2 Readwrite sample

The addresses to be passed as parameters for readwrite samples are platform specific.

Read write sample can be used for addresses in DDR, GEM L1D RAM and L2 RAM on DM357.

For e.g. Sample addresses for DM357

```
readwritegpp readwrite.out 2148466688 1024 10000
readwritegpp readwrite.out 293601280 1024 10000
readwritegpp readwrite.out 300957696 1024 10000
```