Corrections to Tiva™ TM4C129x/TM4C123x Data Sheets

1 Corrections to All Tiva™ TM4C129x and TM4C123x Data Sheets

This manual update sheet, identifies the changes needed to update the TM4C129x and TMS4C123x data sheets identified, and product folder linked, in Table 1.

Change or Add:

In the "**Execute-Only Protection**" subsection of the data sheet, replace the following paragraph:

Execute-only protection prevents both modification and visibility to a protected flash block. This mode is intended to be used in situations where a device requires debug capability, yet portions of the application space must be protected from external access. An example of this is a company who wishes to sell Tiva™ C Series devices with their proprietary software preprogrammed, yet allow the end user to add custom code to an unprotected region of the flash (such as a motor control module with a customizable motor configuration section in flash).

With this ***new*** paragraph:

“An application designer can use the execute-only protection to help protect the integrity and confidentiality of software stored in these protected regions, helping prevent, for example, unauthorized software updates or software reverse-engineering. If, however, the attacker has debug access or has malicious code running, the confidentiality of the code in the execute-only region during runtime could be compromised, for example by observing the effect of each instruction on CPU registers. Therefore, an application designer should consider implementing additional security measures such as debug lock, carefully written software update mechanisms, use of the memory protection unit (MPU), and other appropriate security measures to protect valuable software.”

Table 1. Tiva™ TM4Cx Data Manuals Affected by Correction(s)

PAGE	LITERATURE NUMBER	DEVICE
451	SPMS329	TM4C1230C3PM
451	SPMS330	TM4C1230D5PM
451	SPMS331	TM4C1230E6PM
451	SPMS332	TM4C1230H6PM
494	SPMS333	TM4C1231C3PM
494	SPMS334	TM4C1231D5PM
500	SPMS335	TM4C1231D5PZ
494	SPMS336	TM4C1231E6PM
500	SPMS337	TM4C1231E6PZ
501	SPMS338	TM4C1231H6PGE
494	SPMS339	TM4C1231H6PM
500	SPMS340	TM4C1231H6PZ
462	SPMS341	TM4C1232C3PM
462	SPMS342	TM4C1232D5PM
462	SPMS343	TM4C1232E6PM

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Table 1. Tiva™ TM4Cx Data Manuals Affected by Correction(s) (continued)

PAGE	LITERATURE NUMBER	DEVICE
462	SPMS344	TM4C1232H6PM
504	SPMS345	TM4C1233C3PM
504	SPMS346	TM4C1233D5PM
512	SPMS347	TM4C1233D5PZ
504	SPMS348	TM4C1233E6PM
512	SPMS349	TM4C1233E6PZ
513	SPMS350	TM4C1233H6PGE
504	SPMS351	TM4C1233H6PM
512	SPMS352	TM4C1233H6PZ
464	SPMS353	TM4C1236D5PM
464	SPMS354	TM4C1236E6PM
465	SPMS355	TM4C1236H6PM
506	SPMS356	TM4C1237D5PM
514	SPMS357	TM4C1237D5PZ
506	SPMS358	TM4C1237E6PM
514	SPMS359	TM4C1237E6PZ
515	SPMS360	TM4C1237H6PGE
506	SPMS361	TM4C1237H6PM
514	SPMS362	TM4C1237H6PZ
475	SPMS363	TM4C123AE6PM
475	SPMS364	TM4C123AH6PM
517	SPMS365	TM4C123BE6PM
525	SPMS366	TM4C123BE6PZ
527	SPMS367	TM4C123BH6PGE
517	SPMS368	TM4C123BH6PM
525	SPMS369	TM4C123BH6PZ
528	SPMS370	TM4C123BH6ZRB
489	SPMS371	TM4C123FE6PM
489	SPMS372	TM4C123FH6PM
529	SPMS373	TM4C123GE6PM
539	SPMS374	TM4C123GE6PZ
542	SPMS375	TM4C123GH6PGE
529	SPMS376	TM4C123GH6PM
539	SPMS377	TM4C123GH6PZ
543	SPMS378	TM4C123GH6ZRB
543	SPMS398	TM4C123GH6ZXR
587	SPMS429	TM4C1290NCPDT
591	SPMS430	TM4C1290NCZAD
602	SPMS431	TM4C1292NCPDT
606	SPMS432	TM4C1292NCZAD
610	SPMS445	TM4C1294KCPDT
610	SPMS433	TM4C1294NCPDT
614	SPMS434	TM4C1294NCZAD
603	SPMS435	TM4C1297NCZAD
625	SPMS447	TM4C1299KCZAD
626	SPMS436	TM4C1299NCZAD
596	SPMS437	TM4C129CNCPDT

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Table 1. Tiva™ TM4Cx Data Manuals Affected by Correction(s) (continued)

PAGE	LITERATURE NUMBER	DEVICE
599	SPMS438	TM4C129CNCZAD
610	SPMS439	TM4C129DNCPDT
613	SPMS440	TM4C129DNCZAD
618	SPMS446	TM4C129EKCPDT
618	SPMS441	TM4C129ENCPDT
621	SPMS442	TM4C129ENCZAD
633	SPMS443	TM4C129LNCZAD
642	SPMS448	TM4C129XKCZAD
643	SPMS444	TM4C129XNCZAD

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