PM5363

TUPP+622 DEVICE DRIVER

DEVICE DRIVER RELEASE NOTES

PROPRIETARY AND CONFIDENTIAL

ISSUE 2: FEBRUARY, 01

PMC-Sierra

REVISION HISTORY

Issue No.	Issue Date	Details of Change
1	January 2000	Document created
2	February 2001	Document updated for release rel-1.0

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1 ABOUT THIS RELEASE

This is the production release (rel-1.0) of the PM5363 (TUPP+622) device driver. Rel-1.0 is intended for use with PM5363 TUPP+622 devices. Rel-1.0 is functionally complete and has been tested by PMC-Sierra as described in Section 3 below. Rel-1.0 supersedes all prior versions of the device driver.

2 WHAT'S INCLUDED IN THIS RELEASE

This production release of the TUPP+622 driver includes the following files:

Directory	Filename	File Version
/src	tup_api1.c	1.7
	tup_api2.c	1.10
	tup_hw.c	1.7
	tup_isr.c	1.6
	tup_prof.c	1.6
	tup_rtos.c	1.6
	tup_stat.c	1.7
	tup_util.c	1.6
/inc	tup_api.h	1.7
	tup_defs.h	1.7
	tup_err.h	1.6
	tup_fns.h	1.6
	tup_hw.h	1.9

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Directory	Filename	File Version
/inc	tup_rtos.h	1.6
	tup_strs.h	1.6
	tup_typs.h	1.5
/example	tup_app.c	1.3
	tup_app.h	1.3
	tup_debug.c	1.3
	tup_debug.h	1.3
/	Makefile	1.8
/	software.lic	n/a
/	tupp_plus_622_relnotes_r2.pdf (this file)	n/a

Notes:

1. tup_app.c, tup_app.h contain example callback function implementation and example code.

2. tup_debug.c, tup_debug.h contain an example debugging task that reports register accesses to the device.

3 TESTING STATUS OF THIS RELEASE

All TUPP+622 device driver Application Programming Interface (API) functions have been tested in-house using the PM5363 on a proprietary PMC-Sierra, Inc. application platform running VxWorks[TM] RTOS. As of the publication date of this document, there are no known bugs in this release. However, the customer is advised to consult our web site (http://www.pmc-sierra.com) for any relevant errata that may have been issued subsequent to the publication of this document.

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4 WHAT'S NEW IN THIS RELEASE?

rel-1.0: Production release for the PM5363 device driver.

1. Added support for disabling the C1J1 pulse during the TUGEN enable within `utilTuppInitRegsByPass`. This procedure is outlined in the Tupp+622 data sheet (PMC-1981421).

2. Modified the alarm, status and statistics block API and structures. Statistics are no longer accumulated inside the driver and `tuppClearStats` has been removed. The DSB and MSB structures have been replaced with new status and counts structures. Device status and internal counts can be accessed on per STM-1 basis using `tuppGetCnt` and `tuppGetStatus`.

3. Fixed a bug in `tuppDPR` to automatically return the allocated DPV buffers when the callback functions are defined as `NULL`. In `tuppDPR`, the low-level function `sysTuppDPVBufferRtn` is called to return the DPV buffer if no callback is defined, and no callback is performed.

4. Fixed the invalid parameter check in `tuppWriteBlock` and `tuppReadBlock` where `TUP_MULT` was incorrectly used in the register bounds check.

5 REPORTING PROBLEMS

Please refer to the revision numbers in the files when reporting problems. For technical support, please contact PMC-Sierra by e-mail at apps@pmc-sierra.com or by telephone at 604-415-4533.

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