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PMC-Sierra

COMET and COMET-QUAD (PM4351, PM4354) Device Driver Release Notes

PM4351 AND PM4354

COMET AND COMET-QUAD DEVICE DRIVER

DEVICE DRIVER RELEASE NOTES

PROPRIETARY AND CONFIDENTIAL

RELEASE

ISSUE 1: JULY 2001



PMC-Sierra

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REVISION HISTORY

Issue No.	Issue Date	Details of Change
1	September, 2000	Document created
2	July 2001	Updated file versions and “What’s New” section of Release Notes for release rel-1.0 of the COMET and COMET-QUAD Driver.

1 ABOUT THIS RELEASE

This is the rel-1.0 release of the PM4351 and PM4354 (COMET and COMET-QUAD) device driver. Rel-1.0 is intended for use with PM4351 Revision G COMET devices and PM4354 Revision C COMET-QUAD devices. The rel-1.0 release is functionally complete and has been tested by PMC-Sierra as described in Section 3 below.

2 WHAT'S INCLUDED IN THIS RELEASE

This rel-1.0 release of the COMET and COMET-QUAD driver includes the following files:

Directory	Filename	File Version
/src	cmq_api.c	1.28
	cmq_diag.c	1.17
	cmq_frm.c	1.22
	cmq_hw.c	1.9
	cmq_inbd.c	1.18
	cmq_intf.c	1.31
	cmq_isr.c	1.24
	cmq_rtos.c	1.7
	cmq_ser.c	1.12
	cmq_sig.c	1.9
/inc	cmq_stats.c	1.14
	cmq_util.c	1.29
	cmq_api.h	1.21
	cmq_defs.h	1.29
	cmq_err.h	1.5
	cmq_fns.h	1.13
	cmq_hw.h	1.7

Directory	Filename	File Version
/inc	cmq_rtos.h	1.7
	cmq_strs.h	1.35
	cmq_typs.h	1.5
/example	cmq_app.c	1.2
	cmq_app.h	1.2
	cmq_debug.c	1.2
	cmq_debug.h	1.2
/	Makefile	1.4
/	software.lic	n/a
/	cmq_relnotes_r2.pdf (this file)	n/a

Notes:

1. cmq_app.c, cmq_app.h contain example callback function implementation and example code.
2. cmq_debug.c, cmq_debug.h contain an example debugging task that reports register accesses to the device.

3 TESTING STATUS OF THIS RELEASE

All COMET and COMET-QUAD device driver Application Programming Interface (API) functions have been tested in-house using the PM4351 and PM4354 on a proprietary PMC-Sierra, Inc. application platform running VxWorks™ 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.

4 WHAT'S NEW IN THIS RELEASE?

rel-1.0: Production release of the PM4351 and PM4354 device driver.

This release implements the following changes from the beta-1.0 release of the COMET and COMET-QUAD device driver:

- RJAT is now enabled automatically if a COMET-QUAD device is configured for framed T1 as outlined in the COMET-QUAD Data Sheet, Issue 6. The function `cometqLineRxJatCfg` does not allow the user to disable the RJAT when a COMET-QUAD is configured for framed T1.
- RLPS initialization on COMET-QUAD devices includes the series of register writes outlined in the COMET-QUAD Data Sheet, Issue 6, to ensure optimal receiver sensitivity. This register sequence is invoked whenever the RLPS on a COMET-QUAD device is programmed using `cometqInit` or `cometqLineRxAnalogCfg`.
- The jitter attenuator output clock divisor programmed using `cometqLineRxJatCfg` and `cometqLineTxJatCfg` is enforced to be at least 15.
- Configuration of frame pulse inversion using API function `cometqBTIFFrmCfg` can now only be performed when the BTIF frame pulse is configured as a slave.
- Fuse programming using `cometqLineRxAnalogCfg` is now performed on COMET devices only.
- API functions `cometqRxAnalogByp` and `cometqTxAnalogByp` now operate on COMET devices only.
- New API functions, `cometqRDLCRx` and `cometqTDPRTx`, added to receive and transmit HDLC frames using the RDLC and TDPR respectively.
- Bug fixes in the following driver API functions: `cometqTestReg`, `cometqLineRxJatCfg`, `cometqLineTxJatCfg`, `cometqDPR`, `cometqSigTslotTrnkDataCfg`.



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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.

PMC-Sierra, Inc.
105-8555 Baxter Place Burnaby, BC
Canada V5A 4V7

Tel: (604) 415-6000
Fax: (604) 415-6200

Document Information: document@pmc-sierra.com
Corporate Information: info@pmc-sierra.com
Application Information: apps@pmc-sierra.com
Web Site: <http://www.pmc-sierra.com>

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