



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





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
	cmq_stats.c	1.14
	cmq_util.c	1.29
/inc	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 VxWorksTM 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`.



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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