

**PM7326**



**S/UNI-APEX DEVICE DRIVER**

**ATM TRAFFIC MANAGER**

**DEVICE DRIVER RELEASE NOTES**

**ISSUE 2: JUNE 12, 2000**

**REVISION HISTORY**

<b>Issue No.</b>	<b>Issue Date</b>	<b>Details of Change</b>
1	Dec 1999	Document created.
2	Jun 2000	Document updated for Release-1.0

## **1 ABOUT THIS RELEASE**

This is the Release-1.0 of the PM7326 (S/UNI-APEX) device driver. Release-1.0 is intended for use with PM7326 S/UNI-APEX devices. The Release-1.0 is functionally complete and has been fully tested in-house by PMC-Sierra, Inc. as described in Section 3 below.

## **2 WHAT'S INCLUDED IN THIS RELEASE?**

This Release-1.0 of the S/UNI-APEX driver includes the following files:

<b>Directory</b>	<b>Filename</b>	<b>File Version</b>
apxdrv/src	apx_api1.c	44
	apx_api2.c	23
	apx_eg.c <sup>1</sup>	14
	apx_hw.c	10
	apx_io.c	19
	apx_ism.c	14
	apx_lps.c	5
	apx_prof.c	2
	apx_qe.c	23
	apx_rtos.c	21
	apx_sar.c	14
	apx_stat.c	3
	apx_util.c	23
apxdrv/inc	apx_api.h	18
	apx_defs.h	16
	apx_eg.h <sup>1</sup>	6
	apx_err.h	12
	apx_fns.h	20
	apx_hw.h	11
	apx_rtos.h	8
	apx_strs.h	11
	apx_typs.h	2
bsp	sysPci.c <sup>2</sup>	4
	sysPci.h <sup>2</sup>	1

Notes:

1. `apx_eg.c`, `apx_eg.h` files contain example callback function implementation, as well as example application code for using the SAR module.
2. `sysPci.c`, `sysPci.h` files contain code specific to PMC test platform and VxWorks RTOS. This code should only be used as a reference.

### **3 TESTING STATUS OF THIS RELEASE**

All S/UNI-APEX device driver Application Programming Interface (API) functions have been tested in-house using the PM7326 on a proprietary PMC-Sierra, Inc. validation platform running VxWorks™ RTOS. Example code has been included in this release, demonstrating interoperability with this hardware and operating system. Currently, there are no known bugs in this release. However, the customer is advised that this software has not yet received widespread use and testing outside PMC-Sierra, Inc.

## **4 WHAT'S NEW IN THIS RELEASE?**

**Release-1.0:** This release has the following changes since beta-1.0 release:

### Additions:

1. New API functions to update direction thresholds, port thresholds, class thresholds, connection thresholds, class scheduler parameters, WFQ connection weight and shaping parameters for shaped connections.
2. Multicasting support for cells/frames.
3. New API functions to install and reset multicast callback function.
4. Added a compiler switch `APX_CSW_CHK_OVERRIDE`. When this switch is defined at compile time, the driver does not check the device id of the chip.

### Modifications:

1. Changed the `apexCellBufTest` function in the file `apx_api2.c` so that the function can be invoked in all states of the device.
2. In the SAR module we now check that the indication callback function pointers are not null pointers before invoking them.
3. Updated the class teardown procedure in `qeApexClassDisable` function in file `apx_qe.c` to reflect the changes in the Issue 2 of the APEX H/W programmers guide. (PMC-991454)

### Bug Fixes:

1. Fixed a bug in the `qeIsConnShaped` function in file `apx_qe.c`; the mask should be calculated using `APX_PRT_CL_REC_C0_SHP_MSK` instead of `APX_PRT_CL_REC_C3_SHP_MSK`
2. Fixed a bug in the `apx_defs.h` file; the maximum value of the `APX_MAX_SHP_RT_RATE` should be `0x1FF` instead of `0xFF`.
3. Fixed a bug in the `lpsInit` function in the `apx_lps.c` file; where the index in the for loop should be `APX_NUM_LOOP_PORT_WTS` instead of `APX_NUM_LOOP_PORT`

**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](mailto:apps@pmc-sierra.com) or by telephone at 604-415-4533.

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