

**PM7351**



**S/UNI-VORTEX DEVICE DRIVER**

**OCTAL SERIAL LINK MULTIPLEXER**

**DEVICE DRIVER RELEASE NOTES**

**RELEASE-1.0**

**ISSUE 3: AUGUST 2000**

**PUBLIC REVISION HISTORY**

<b>Issue No.</b>	<b>Issue Date</b>	<b>Details of Change</b>
1	July 1999	Document created.
2	January 2000	Beta-1.1 driver release. This release enables Rev. B device detection and fixes a bug in Insert/Extract Cell APIs.
3	August 2000	Updated documentation for Release-1.0 Added three API functions (see section 4)

## **1 ABOUT THIS RELEASE**

This is Release-1.0 of the PM7351 (S/UNI-VORTEX) device driver. It is intended for use with PM7351 S/UNI-VORTEX devices. Release-1.0 is functionally complete and has been tested by PMC-Sierra as described in Section 3 below.

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

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

<b>Directory</b>	<b>Filename</b>	<b>File Version</b>
vtxdrv/src	vtx_api.c	29
	vtx.c	25
	vtx_hw.c	13
	vtx_rtos.c	24
	vtx_test.c <sup>1</sup>	21
vtxdrv/inc	vtx_api.h	20
	vtx.h	14
	vtx_hw.h	8
	vtx_rtos.h	11
	vtx_err.h	9
	vtx_test.h <sup>1</sup>	6
bsp	sysPci.c <sup>2</sup>	4
	sysPci.h <sup>2</sup>	3

Notes:

1. vtx\_test.c, vtx\_test.h files contain example callback function implementation, as well as example application code for testing.

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-VORTEX device driver Application Programming Interface (API) functions have been tested in-house using the PM7351 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.

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?**

**Release-1.0:** This release has the following changes since the beta-1.1 release:

### Additions:

1. Added the following API functions: `vortexHssSetState`, `vortexHssSetLogChnlAddrMap`, `vortexSetCtrlChnlBaseAddr`, to the file `vtx_api.c`
2. Added the `VTX_UP_DWN_STREAM_MATCH` compiler switch for initial vector validation in the file `vtx.c`
3. Added `(volatile UINT1 *)` to `sysVortexRawRead` and `sysVortexRawWrite` macros in the file `vtx_hw.h`

### Modifications:

1. Removed redundant error code `VTX_ERR_INVALID_LNK_ID` from the files `vtx_api.c` and `vtx_err.h`. The error code `VTX_ERR_INVALID_HSS_ID` is used instead

### Bug Fixes:

1. Fixed a bug in API function `vortexGetHssLnkRxCounts`: There was a typo in reading the counter register `VTX_RX_HSS_CELL_LSB1`
2. Fixed byte order of (VPI, VCI) and AAL5 packet length in ATM cells in the sample code (see file `vtx_test.c`)

## **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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PMC-1990864(P3) Issue date: August 2000