AMD

AMD Instinct™ MI300X Firmware Changes

AMD

Contents

Chapter 1: Introduction

This document provides release notes for the AMD Instinct™ MI300X accelerator firmware, including enhancements and key fixes.

⭐ **Important:** The MI300X firmware bundle 24.13 requires an upgrade to ROCm 6.2.2. Bundles 24.11 and 24.12 require an upgrade to ROCm 6.2 or later builds. For assistance with the update process, contact AMD Support.

![AMD logo]

Chapter 2: Release Contents

The following table details the versions of the constituent firmware components in this release. Highlighted versions have changed since the previous release. Certain versions may remain unchanged across different releases.

Table 2.1: Firmware Bundle Component Versions

Location	Component	Component Details	Previous Component Details	Version Number
Bundle	bundle_active	01.24.13.12 (Production)	01.24.13.09 (Production)	0x01180D0C
Bundle	ROT	00730000 (Production)	00730000 (Production)	0x00730000
Bundle	IFWI	01.05.123529	01.05.120810	0x1051E289
Bundle	SMC	2.11.0.68.5F (Production)	2.11.0.66.4F (Production)	0x0100445F
Bundle	SMC FPGA	00.26.10	00.26.10	0x00026010
Bundle	UBB FPGA	00.26.13 00.26.24	00.26.13 00.26.24	0x00026013 0x00026024
Bundle	Retimer	2.11.062 2.11.076 2.11.077 2.11.078	2.11.062 2.11.076 2.11.077 2.11.078	0x0200B03E 0x0200B04C 0x0200B04D 0x0200B04E
Bundle	Remote Management	4.0.12	4.0.12	0x0400000C
Bundle	VR	01.009 02.0BE	01.009 02.0BE	01.009 02.0BE

Chapter 3: Enhancements

The following table lists the enhancements in this release sorted by component.

Table 3.1: Enhancements

AMD Ref ID	Component	Description
U0659	SMC	Persistent SMC journalctl log
U0752	SMC	New Redfish events indicating mode-1 reset occurred and GPU operation restored **mode-1 reset occurred event definition:** **Category of Event:** GPU Error Events **Sub categories:** GPUReset **Message Registry:**ResourceEvent.1.2.1 **SecureFWVerifySuccess:**InternalResetOccurredOEM **OriginOfCondition:**/redfish/v1/Chassis/OAM_X where X is 0,1....,7 **Message:** The resource property <Arg1> has detected an internal reset of type '<Arg2>'", **Arg1:** "OAM_X" where X is 0,1....,7 **Arg2:** "modeX" where X is 1,2 **Severity:** OK **RF URI:**/Systems/UBB/LogServices/EventLogs/ **GPU operation restored event definition:** **Category of Event:** GPU Error Events **Sub categories:**GPUBoot **Message Registry:** ResourceEvent.1.2.1 **SecureFWVerifySuccess:** GpuOperationRestoredOEM **OriginOfCondition:** /redfish/v1/Chassis/OAM_X where X is 0,1....,7 **Message:** "The resource property <Arg1> operation restored." **Arg1:**"OAM_X" where X is 0,1....,7 **Severity:** OK **RF URI:**/Systems/UBB/LogServices/EventLogs/

Chapter 4: Key Fixes

The following tables list the key fixes in this release sorted by component.

The Fixed Known Issues table lists known issues that were previously documented and have been resolved in this release. The Fixed New Issues table lists issues that were not previously documented but have been resolved in this release.

Table 4.1: Fixed Known Issues

AMD Ref ID	Component	Issue	Fix
B1379	SMC	IFWI update can fail in rare cases. Separate symptom: Rare critical self-test failure on WAFL link training or unhandled boot error following firmware update	Ensure IFWI, VR, and RM programming are complete before voltage rail is cycled
B1405	SMC	Log retrieval may fail if system has unreachable OAM or re-timer	Add additional error checking in the logic that collects logs
U0258	SMC	ForceRestart and ResetAll Redfish actions not working	Ensure files required for booting are always restored after reset to defaults
U1078	SMC	Slow Redfish response times when there is a flood of CPERs	Improve DBUS and I2C utilization
P164171	IFWI	Address ODECC HBM CEs	HBM stability improvements

Table 4.2: Fixed New Issues

AMD Ref ID	Component	Issue	Fix
B1319	SMC	UBB FPGA or SMC FPGA may report health status as warning	Corrected logic to report health status appropriately
B1459	SMC	RM version number in Redfish event during firmware update is always 0	RM version number in Redfish event is reported correctly, matching the version of the RM in the bundle

Table 4.2: Fixed New Issues (continued)

U1017	SMC	VR configuration not being updated on some part numbers	Added OAM and UBB part numbers to SMC FW lookup tables
U1060	SMC	SplitCPER=false setting is not properly supported	Remove support for SplitCPER=false
U1064	SMC	Unable to determine when SMC firmware is resetting due to mount issue	SMC firmware will delay sending the pre-existing Redfish event, BootSuccess secure, until successful access is verified to the flash partition.

Appendix A: Notices

A.1 Trademarks