

## IPMI Firmware / BIOS Release Notes Form

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<b>Product Name</b>	<b>X10DDW-IN</b>
<b>Release Version</b>	<b>3.1 ME: 3.1.3.4</b>
<b>Release Date</b>	<b>3/22/2019</b>
<b>Previous Version</b>	<b>3.0a</b>
<b>Update Category</b>	<b>Recommended</b>
<b>Dependencies</b>	<b>None</b>
<b>Important Notes</b>	<b>N/A</b>
<b>Enhancements</b>	<b>1. Updated CPU microcode to address 'Spectre' derivatives (CVE-2018-3639 &amp; CVE-2018-3640) security issue. 2. Updated ASTVBIOS to V1.09.00 to address CVE-2019-6260/Pantsdown.</b>
<b>New features</b>	<b>1. Added energy performance configuration to Advanced Power Management.</b>
<b>Fixes</b>	<b>N/A</b>

***Release Notes from Previous Release(s)***

***3.0a (3/1/2018)***

- 1. Implemented enhancement to address 'Spectre' variant 2 (CVE 2017-5715) security patch issue.*
- 2. Updated RC 4.3.0.*
- 3. Added Intel SPI vulnerability patch.*
- 4. Implemented tCCD\_L.*
- 5. Enabled setup options for slot1 of RSC-R2UW2E8E16 to be excluded from "Above 4G Decoding".*
- 6. Filled SMBIOS type 11 default OEM string.*
- 7. Fixed missing console redirection output when "Resolution 100x31" is disabled.*