

ME1100 Dreamy Smurf 2.3.094AFC58 (Software Update Package)

PCN no.: 2101

Revision	Brief Description of Changes	Date of Issue
1.1	Initial issue	2021-02-09

1/ Description of the change

Dreamy Smurf includes firmware modifications contributing to the fix of multiple issues and added improvements.

Please refer to the following table for the list of updated components:

Product	Component	Clumsy Smurf	Dreamy Smurf
ME1100	BIOS	2.25.0940A3D0	2.27.094AFC17
	BMC	2.2.0944EBB7	2.3.094ABCE8
	FPGA	2.2.0800AD12	2.2.0800AD12

2/ Change Classification

Classification	<ul style="list-style-type: none"> Maintenance release, Product improvement
Applicability	<ul style="list-style-type: none"> This package is field-upgradable if on package higher than 2.1.09440B43*; please download the bundle from the FIRMWARE section of the ME1100 page of Kontron's corporate website : Here

*If upgrading from firmware version 2.1.09440B43 or below, additional steps are required

3/ Impact on customer's application and recommended actions

For all ME1100 units deployed with older FWs, it is recommended to apply this SUP as soon as is practical.

Please refer to the firmware upgrade procedure found below for a step-by-step upgrade process.

4/ Firmware upgrade procedure

The following procedures will upgrade the BMC/FPGA/BIOS

Prerequisite

A community version of ipmitool is installed on a remote computer to enable remote monitoring—it is recommended to use ipmitool version higher than 1.8.16.

It is mandatory to wait around 5 MINUTES after BMC has BOOTED (after a power up/reboot or previous HPM upgrade) BEFORE launching a HPM upgrade. This ensures that BMC is fully booted (no unfinished setup process pending) and ready for a new HPM upgrade command.

4.1. From package above 2.1.09440B43

Upgrade is done using ipmitool with the following command from a remote computer on the same network as the ME1100's BMC:

1. `ipmitool -N 5 -I lanplus -H <BMC_IP_Addr> -U admin -P admin raw 0x32 0x8f 0x03 0x03`
2. `ipmitool -N 5 -I lanplus -H <BMC_IP_Addr> -U admin -P admin raw 0x32 0x8f 0x04`
3. `ipmitool -N 5 -I lanplus -H <BMC_IP_Addr> -U admin -P admin -z 7000 hpm upgrade <hpm_filename> force activate`
4. When the upgrade is completed, verify firmware information with: `ipmitool -N 5 -I lanplus -H <BMC_IP_Addr> -U admin -P admin hpm check`
5. `ipmitool -N 5 -I lanplus -H <BMC_IP_Addr> -U admin -P admin raw 0x32 0x8f 0x03 0x01`

4.2. From package 2.1.09440B43 and below

Upgrade is done using ipmitool with the following command from a remote computer on the same network as the ME1100's BMC:

1. `ipmitool -N 5 -I lanplus -H <BMC_IP_Addr> -U admin -P admin raw 0x32 0x83 0x03 0x00`
2. `ipmitool -N 5 -I lanplus -H <BMC_IP_Addr> -U admin -P admin raw 0x32 0x8f 0x03 0x03`
3. `ipmitool -N 5 -I lanplus -H <BMC_IP_Addr> -U admin -P admin raw 0x32 0x8f 0x04`
4. `ipmitool -N 5 -I lanplus -H <BMC_IP_Addr> -U admin -P admin -z 7000 hpm upgrade <hpm_filename> force activate`
5. When the upgrade is completed, verify firmware information with: `ipmitool -N 5 -I lanplus -H <BMC_IP_Addr> -U admin -P admin hpm check`
6. `ipmitool -N 5 -I lanplus -H <BMC_IP_Addr> -U admin -P admin raw 0x32 0x8f 0x03 0x01`

5/ Individual Changelogs

5.1. BIOS

- Merged to latest code drop, including multiple security update
- Microcode update

5.2. BMC

- Fixed an NCSI channel configuration issue when using VLAN filtering
- Added external RTC functionality when populated
- Fixed an issue that would clear Timezone offset on ipmitool set sel time command
- Fans are now running at full speed during upgrade
- Fixed an issue that would remove BMC lan channel static IP parameters in certain cases
- Removed non useful WebUI elements
- Fixed an issue that could cause LED issue behavior problems
- Removed the ability to run multiple hpm upgrade at once
- Removed functionality to set a new date-time in the BMC from the WebUI
- Fixed an issue that would prevent setting the persistent flag over KCS interface



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With a significant percentage of employees in research and development, Kontron creates many of the standards that drive the world's embedded computing platforms; bringing to life numerous technologies and applications that touch millions of lives. The result is an accelerated time-to-market, reduced total-cost-of-ownership, product longevity and the best possible overall application with leading edge, highest reliability embedded technology.

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