

Release Note for AIC Indus BMC

2026/01/30

Firmware Name: 4E00IDS001801.ima

Codebase: AST2600 LTS v13.8 (BeechnutCity)

Kernel: 5.X.X + Bookworm + SysV

Redfish: 1.21.1 + RTP13.5

Flash Utility: Yafuflash v7.01.0120

Change log: (0.18.1)

1. Do not control ASM1062 strap pin.
2. Let Identify Button no function if all LED pattern was locked.

Change log: (0.17.1)

3. Fix the Restore BMC Default Configuration function not working when using the JCLR_PSWD jumper.
4. Support Web UI OEM Favicon.
5. Add workaround to avoid CPU1 failure causing partition damage.

Change log: (0.16.1)

6. Fix the Restore BMC Default Configuration function not working when using the JCLR_PSWD jumper.
7. Support auto snapshot BMC previous conf to extra partition when BMC boot stage.
8. Support auto restore BMC conf form snapshot conf while both of conf partitions are damaged.
9. Fixed main web session alive when KVM is opened.
10. Prevent write Environment data while All AC Lost.

Change log: (0.15.1)

1. Support checks CPLD User Code.
2. Prevent write NVRAM data while All AC Lost.

Change log: (0.14.1)

1. Modify some SDR sensor number.(CXh -> FXh)
2. Support read AMD Alveo temperature.
3. Modify All AC Lost event mechanism.
4. Fix cannot post conf corrupted event log on single image mode.
5. Update SNMP MIB file.
6. Implement software watchdog sensor.
7. Implement platform integrity check.

Change log: (0.13.1)

1. Disable BMC/BIOS Dual Image feature for PVT.
2. Change Audit Log storage location from flash to memory.

Change log: (0.12.1)

1. Upgrade Kernel to Bookworm.
2. Modify USB LAN channel number from 7 to 13.
3. Does not clear Fault LED when power off.
4. Fix temperature reading (Celsius) is garbled text.
5. Remove AMI default function "BMC Cold Reset".
6. SDR monitor Aux voltage sensor when power off.
7. Set UART1/3/4 baud rate to 115200.
8. Fix prepare BIOS FW update fail occasionally.
9. Fix universal smart fan not working properly.
10. Hide System Inventory > Power field - LimitInWatts / LimitException.

Change log: (0.11.1)

1. Fix Memory Controller Info string on Web.
2. Support Power Control Info function on Web.
3. Modify SDR setting for AIC_Indus_BMC_SDR_List_20250805.xlsx.
4. Implement modify FRU data function.

Change log: (0.10.1)

1. Upgrade AMI Codebase LTS-v13.8.
2. Support Universal Smart Fan for GPU temperature.
3. Support BIOS POST Code.
4. Support RAID Management.
5. Support NIC Management.
6. Support Dual BIOS update.
7. Support restore BMC default configuration by jumper.
8. Modify platform name from arcity to becity.

Note: Must update BMC FW to 0.09.1 first before update to 0.10.1.

Change log: (0.09.1)

1. Support Intrusion Switch Type.
2. Support Universal Smart Fan.
3. Support force set BMC IP to static IP by Jumper.
4. Implement SDR CPU_Status and P_Memory_Trip.
5. Implement power redundancy mode function.
6. Fix CID status not sync by CID button.
7. Enable AMI BIOS WebUI Support.
8. Fix SEL P3VBAT reading logs 5.1V while low battery.
9. Disable Serial Interface support.
10. Fix ipmitool chassis restart_cause issue.
11. Do not update CPLD Feature Row.
12. Do not check platform name while update BMC FW.

Change log: (0.08.1)

1. Disable AMI BIOS WebUI Support.
2. Update PCIe Thermal Table.
3. Set GPIOG2 Output Low.
4. Support Security Code Command.
5. Support Set/Get FRU Data.
6. Implement EEPROM/Reset Chassis Intrusion function.

Change log: (0.07.1)

1. Support dynamic thermal setting for some PCIe card.
2. Support Wake on LAN interrupt function.
3. Add Retry mechanism for PSU sensor.
4. Add Retry mechanism for Voltage sensor.
5. Do not show PSU status event if PSU is never installed.
6. Implement OEM CMD - BMC_STOP_ALL_I2C_ACCESS (raw 0x36 0xF8 0xA2 0x00/0x01) for DQA test.
7. Support ssh, scp for DQA test.(Temporary)
8. Enable AMI BIOS WebUI Support.

Change log: (0.06.1)

1. Modify LAN usb0 channel number to 7 for BIOS Redfish function.
2. Modify all SDR Event-Only Lun# to 0.
3. Modify SDR (PSU_Totel_Watt / P0_DIMM_Watt / P1_DIMM_Watt) sensor number.
4. Modify SDR P3VBAT monitor state to MonitorOnStandby.

Notice:

1. LAN Default IP source is DHCP.
2. Do not preserve configuration when first update this FW version.

1. IPMI Command

1.1. IPMI standard Command

Only the IPMI standard commands with AIC specific implementation are listed below.

1.1.1. Get Device ID (NetFn: 0x06, Command: 0x01)

Only the fields highlighted in green are AIC specific.

The firmware version is <Firmware Revision 1>.<Firmware Revision 2>.<Byte 1 of Auxiliary Firmware Revision Information>.

	Byte	Data Field
Request Data	-	-
Response Data	1	Completion Code
	2	Device ID
	3	Device Revision
	4	Firmware Revision 1 (Major Firmware Revision)
	5	Firmware Revision 2 (Minor Firmware Revision)
	6	IPMI Version
	7	Additional Device Support
	8:10	Manufacturer ID, LS Byte first.
	11:12	Product ID, LS Byte first.
	13	Byte 1 of Auxiliary Firmware Revision Information
	14	Byte 2 of Auxiliary Firmware Revision Information
	15	Byte 3 of Auxiliary Firmware Revision Information
	16	Byte 4 of Auxiliary Firmware Revision Information

1.2 IPMI OEM Command

1.2.1. Get BMC Firmware Name (NetFn: 0x3A, Command: 0x33)

	Byte	Data Field
Request Data	-	-
Response Data	1	Completion Code
	2:14	BMC Platform Name

1.2.2. Get BMC Dual Image Info (NetFn: 0x32, Command: 0x8F)

	Byte	Data Field
Request Data	1	0x02: Get FW boot selector 0x04: Get FW upload selector 0x07: Get current active image
Response Data	1	Completion Code
	2	0x00: Inactive Image 0x01: Image1 0x02: Image2 0x03: Both