

# Hitachi Compute Blade 2500 Firmware List & Release Notes

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## Preface

This is a concise reference of all the recommended firmware, drivers, and utilities for the Hitachi Compute Blade 2500 (CB 2500). Relevant release notes for firmware versions are also included.

### Note:

- Since there are interdependencies, do not simply obtain the latest version and apply it.
- Contact Hitachi Data Systems' (HDS) Global Support Center (GSC) at the phone numbers found at <http://www.hds.com/support/> for guidance.

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### Firmware Listing

This table provides a succinct listing of the most recent versions of firmware or drivers that are available for the CB 2500.

Version	Description	Status	eBOM Date
3.3.7	Hitachi Compute Blade 2500 - Compute Blade Test Program (CBTP) for Customer	GA	05/08/15
07-29/07-29	Hitachi Compute Blade 2500 Series BMC/EFI Firmware (520X B1)	GA	05/08/15
09-05/09-06	Hitachi Compute Blade 2500 Series BMC/EFI Firmware (520X B2)	GA	05/08/15
08-30/08-29	Hitachi Compute Blade 2500 BMC/EFI Firmware (520H B3)	GA	05/08/15
3.3.7	Hitachi Compute Blade 2500 Series Maintenance Test Program (BSTP)	GA	05/08/15
01-09	Hitachi Compute Blade 2500 Series 10Gb CNA firmware	GA	11/17/14
4.0.1_hit1	Hitachi Compute Blade 2500 Series 10Gb DCB Switch Firmware & Accessory CD	GA	03/04/15
40-03-07	Hitachi Compute Blade 2500 Series Hitachi 16Gbps Fibre Channel adapter firmware	GA	05/08/15
30-05-08	Hitachi Compute Blade 2500 Series Hitachi 8Gbps Fibre Channel adapter firmware	MGA	01/26/15
02-10	Hitachi Compute Blade 2500 Series LPAR Manager Firmware	GA	05/08/15
2.3.2.6	Hitachi Compute Blade 2500 Series I/O device firmware update iso image tools	GA	11/17/14
7.8.9	Hitachi Compute Blade 2500 Series 1/10Gb LAN Switch Firmware & Accessory CD	RGA	01/06/15
A0113/00	Hitachi Compute Blade 2500 Series Management Module firmware pack	MGA	02/04/15

## Management Module Firmware Release Notes

The following is a listing of the relevant fixes or new features that were implemented in the noted levels of firmware.

### Version A0113/00

#### 1. New Features and Functions

##### 1-1. Management Module firmware

- Supported notification of the following information of CB520X x1 and CB520H x3 server blades for Hi-track.
  - HDD information.
    - Vendor name
    - Product number
    - Capacity
    - Firmware version
  - Firmware version of the following PCI devices.
    - LOM
    - Hitachi 8Gb FC adapter
    - Hitachi 16Gb FC adapter
    - CNA adapter
- Supported use of Switch module management functionality via external ports of Switch module.

#### 2. Bug Fixes

The following problem is fixed.

- The management module firmware doesn't notify SNMP manager and Hi-TRACK of the second internal HDD correctly.

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## BMC/EFI Firmware Release Notes

The following is a listing of the relevant fixes or new features that were implemented in the noted levels of firmware.

### 520Xx2 Blades

#### *Version 09-05/09-06*

1. New Features
  - None
2. Improvements
  - Updated QPI/CPU/Memory Reference Code to version 1.0 .
  - N+M, AddWWN, AddMAC and PCIe Link Check are available for Fast Boot.
3. Bug Fixes
  - A remote console session is disconnected by an unexpected SVP-BMC communication error.  
See Appendix A for bug fixes.
4. Firmware dependency
  - Server blade integrated FW 09-06 requires the following FW components.
  - Management Module Firmware: A0121-C-1009 or higher
  - SEL Dictionary: ver. A0013 or higher

#### *Version 09-01/09-02*

Initial Release

1. Firmware dependency
  - Server blade integrated FW 09-02 requires the following FW components.
  - Management Module Firmware: A0120-H-961 or higher
  - SEL Dictionary: ver. A0013 or higher

### 520Xx1 Blades

#### *Version 07-29/07-29*

1. New Features
  - None
2. Improvements
  - None
3. Bug Fixes
  - A remote console session is disconnected by an unexpected SVP-BMC communication error.
  - EFI fails in SR-IOV setup.  
See Appendix A for bug fixes.
4. Firmware dependency
  - Server blade integrated FW 07-29 requires the following FW components.
  - Management Module Firmware: A0121-C-1009 or higher
  - SEL Dictionary: ver. A0013 or higher

#### *Version 07-27/07-28*

1. New Features
  - This Firmware supports the following new functions.
  - BMC IPv6 Stateless Address Auto Configuration(SLAAC)
  - BMC Audit Log
2. Improvements
  - None
3. Bug Fixes
  - System UUID in SMBIOS is always set as Physical UUID even if Additional UUID is set.
  - Force PXE boot failure with 2S single blade system.
  - Force PXE boot failure with SMP system.  
See Appendix A for bug fixes.
4. Firmware dependency

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Server blade integrated FW 07-28 requires the following FW components.

- Management Module Firmware: A0120-H-961 or higher
- SEL Dictionary: ver. A0013 or higher

### *Version 07-21/07-20*

#### 1. New Features and Functions

Support the enhanced Hi-Track which can display the PCI card firmware information.

#### 2. Firmware dependency

Server blade integrated FW 07-21 requires the following FW components.

- Management Module Firmware: A0113-B-800 or higher
- SEL Dictionary: ver. A0009 or higher

## 520Hx3 Blades

### *Version 08-30/08-29*

#### 1. New Features

None

#### 2. Improvements

None

#### 3. Bug Fixes

- BMC initialization may fail.
- See Appendix A for bug fixes.

#### 4. Firmware dependency

Server blade integrated FW 08-30 requires the following FW components.

- Management Module Firmware: A0120-H-961 or higher  
(The same dependencies as server blade integrated FW 08-29)
- SEL Dictionary: ver. A0013 or higher  
(The same dependencies as server blade integrated FW 08-29)

### *Version 08-27/08-29*

#### 1. New Features

This Firmware supports the following new functions.

- BMC IPv6 Stateless Address Auto Configuration(SLAAC)
- BMC Audit Log
- Support legacy boot in force pxe mode for VMware vSphere AutoDeploy

#### 2. Improvements

None

#### 3. Bug Fixes

- Unable to change Secure boot in EFI setting from enable to disable.
  - OS boot may hang up with 1 CPU configuration.
- See Appendix A for bug fixes.

#### 4. Firmware dependency

Server blade integrated FW 08-29 requires the following FW components.

- Management Module Firmware: A0120-H-961 or higher
- SEL Dictionary: ver. A0013 or higher

### *Version 08-22/08-22*

#### 1. Bug Fixes

- System UUID in SMBIOS is always set as Physical UUID even if Additional UUID is set.
- PCIe fatal error log may not be collected.

#### 2. Firmware dependency

Server blade integrated FW 08-22 requires the following FW components.

- Management Module Firmware: A0113-B-800 or higher  
(The same dependencies as server blade integrated FW 08-21)
- SEL Dictionary: ver. A0009 or higher

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(The same dependencies as server blade integrated FW 08-21)

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### DCB Switch Module Firmware & Accessory Kit Release Notes

The following is a listing of the relevant fixes or new features that were implemented in the noted levels of firmware.

#### Version 4.0.1\_hit1

##### 1. Bug Fixes

###### Symptoms:

The fail message of "Switch Module: Power on retry over" would be logged on system event log (SEL) at low temperature (about 5 degree C). When this issue happens, user can not log-in to the switch CLI. Refer to Appendix A for more detail.

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### 1/10Gb LAN Switch Module Firmware

The following is a listing of the relevant fixes or new features that were implemented in the noted levels of firmware.

#### Version 7.8.9

##### 1. Bug Fixes

- 1-1. The warning message of "Switch Module: Management module failed to set the IP address of a Switch Module." would be logged on system event log (SEL).
- 1-2. ALM LED on the LAN switch module faceplate would be turned on its POST sequence after F/W update (overwrite).

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## PCIe/Mezzanine Firmware Release Notes

The following is a listing of the relevant fixes or new features that were implemented in the noted levels of firmware.

### 10Gb CNA Firmware Release Notes

#### Version 01-09

##### 1. New Features and Functions

The firmware for Skyhawk (onboard CNA of CB2500 520X Server Blade B1) is initially supported. (Ver. 10.2.370.16)

##### 2. Improvement

Skyhawk (onboard CNA of CB2500 520X Server Blade B1) is initially supported by its firmware release.

##### 3. Dependency

3-1 The required system firmware version and HVM firmware version are listed in the following table.

CNA firmware	Related firmware	520X Server blade B1
10.2.340.10 (for BE3)	System Integrated firmware	07-06 or higher
10.2.370.16 (for Skyhawk)	HVM firmware	02-00 or higher

3-2 The required drivers are provided by "CB2500 10Gb CNA drivers version 01-06". The driver versions are listed in Appendix-B.

3-3. BSTP ver.3.1.20 or higher

The BSTP ver.3.1.20 or higher is recommended to use this firmware version 01-09 to identify which files can be applied to the devices in the system equipment.

##### 4. Restriction

4-1. To update the firmware for onboard CNA of CB2500 520X Server Blade B1, (Skyhawk) to the version 10.2.370.16, use the firmware file "OneConnect-Flash-10.2.370.16.iso". See appendix-C for how to use "OneConnect-Flash-10.2.370.16.iso"

(Note that If this method is used, the firmware can not be returned to the previous version.)

4-2. The CNA firmware update is also required for the CNA devices on the stand-by blade of N+M cold standby configuration.

### 16-Gbps FC Adapter Firmware Release Notes

#### Version 40-03-07

##### 1. New Functions

1-1. 16Gbps Fibre Channel on LPAR manager. (The OS available for the guest OS is only Windows and Red Hat Enterprise Linux)

##### 2. Improvements

None

##### 3. Bug Fixes

3-1. FC adapter machine check may occur if the FC link is down while the guest OS boot under following configuration. - Fibre Channel port shared configuration. - Under virtualization environment.

3-2. FC adapter machine check may occur if the FC link is down when FC adapter cancel IO operation against the IO error caused by the FC interface problem.

3-3. If frequent link up/down occur within a short period under the following configuration, status of the FC adapter port on guest OS may stay link down. - Direct connection (FC-AL). - Fibre Channel port shared configuration. - Under virtualization environment.

See Appendix A for bug fixes.

##### 4. Firmware dependency

None

#### Version 40-02-00

##### 1. New Functions/Improvements/Bug-fixes

###### 1-1. Bug-fixes

(1) Fibre channel adapter machine check may occur when all the cache in the fibre channel adapter become busy status due to multiple write commands of the large transfer size are issued.

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### 8-Gbps FC Adapter Firmware Release Notes

#### *Version 30-05-08*

#### 1. New Functions/Improvements/Bug-fixes

##### 1-1. Bug-fixes

- (1) Improvement to recognize connected devices which upper 2 bytes of PORT\_ID are same as Fibre Channel adapter's PORT\_ID according to the instruction by the driver at FC switch connection.
- (2) Fibre channel adapter machine check may occur when all the cache in the fibre channel adapter become busy status due to multiple write commands of the large transfer size are issued.
- (3) SCSI timeout may occur if the load balancing option of Access Gateway mode on FCSW is enabled.

### I/O device firmware update iso image tools Release Notes

#### *Version 2.3.2.6*

#### 1. New Features and Functions

- 1-1. This software is a tool to update I/O device firmware for UCP.
- 1-2. It supports Emulex CNA(skyhawk), Emulex FC, Hitachi 16Gb FC(FIVE-FX).
- 1-3. It supports EFI boot.
- 1-4. The usersguide shows the way of making I/O device firmware update iso image.

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### LPAR Manager Firmware Release Notes

The following is a listing of the relevant fixes or new features that were implemented in the noted levels of firmware.

**Note:** This applies to both the version provided to customers as well as for the version provided for maintenance personnel.

#### Version 02-10

##### 1. New Features

- Added support of Hitachi 16Gbps FC adapter; however, LPAR migration in concurrent maintenance mode is not supported yet.
- Supported the redundancy of management path for LPAR manager by the function you can specify two ports of different NICs.
- Added support of the following:
  - (a) 1.1TB PCIe MLC Flash drive board (FlashMAX3)
  - (b) 2.2TB PCIe MLC Flash drive board (FlashMAX3)
- Supported CB 520X B2 server blade. 2-blade SMP is also supported.
- Added support of E5-2667 v3, E5-2637 v3, and E5-2698 v3 processors for CB520H B3 server blade.

##### 2. Improvements

- Resolved the following vulnerability problems of OpenSSL: CVE-2014-3567, CVE-2015-0204, CVE-2015-0205, CVE-2014-8275, and CVE-2014-3570.
- Terminated the support of SSL v3.0 due to SSL v3.0 vulnerability (CVE-2014-3566 dubbed POODLE).

##### 3. Bug Fixes

The following problems are fixed.

- The LPAR manager unintentionally initializes EFI driver for the FC-HBA on an LPAR, and makes the Guest-OS become unable to boot.

See Appendix A for Detail of Bug Fixes.

#### Version 02-06

##### 1. New Features

- Supported RHEL 6.6 (AMD64 & Intel EM64T).

##### 2. Bug Fixes

- Kernel panic or FC path failover may occur by HBA MCK on guest OS RHEL 6 due to a bug in LPAR manager.
- No performance data of NICs and HBAs is shown after deleting LPAR.
- In LP Usage screen, Proc field becomes the unfair indication.
- Guest OSs might output an error message showing a timer issue, or might happen to reboot on an LPAR manager with more than 3 TB of memory size.

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### Maintenance Test Program Release Notes

The following is a listing of the relevant fixes or new features that were implemented in the noted levels of maintenance test programs.

### Maintenance Test Program for Customers (CBTP) Release Notes

#### Version 3.3.7

1. New Features  
None
2. Improvements  
None
3. Bug-fixes
  - CBTP may miscalculate the amount of power consumption for a server blade.See Appendix A for bug fixes.

#### Version 3.3.6

1. New Features
  - Supported CB520X B2 Server Blade and the following CPUs for CB520X B2 Server Blade.
    - GG-RV3XGE0B2X1-Y : 520X B2 Blade
    - GG-EC32506X1-Y/R : Processor Xeon E7-8890v3
    - GG-EC32306X1-Y/R : Processor Xeon E7-8880v3
    - GG-EC33203X1-Y/R : Processor Xeon E7-8893v3
    - GG-EC32205X1-Y/R : Processor Xeon E7-4850v3
    - GG-EC31903X1-Y/R : Processor Xeon E7-4820v3
    - GG-EC32007X1-Y/R : Processor Xeon E7-4809v3
2. Improvements
  - RAID setting parameter values changed because initial settings of onboard SAS3004 iMR have been changed.
3. Bug-fixes  
None

#### Version 3.3.5

1. New Features
  - Supported 1333MHz RDIMMs on CB520X B1 blade.
    - GG-MJ3N8G1X1-Y/R : 8GB memory, 2R, 1333
    - GG-MJ316G1X1-Y/R : 16GB memory, 2R, 1333

### Maintenance Test Program for Field Engineers (BSTP) Release Notes

#### Version 3.3.7

1. New Features  
None
2. Improvements  
None
3. Bug-fixes
  - CBTP may miscalculate the amount of power consumption for a server blade.See Appendix A for bug fixes.

#### Version 3.3.6

1. New Features
  - Supported CB520X B2 Server Blade and the following CPUs for CB520X B2 Server Blade.
    - GG-RV3XGE0B2X1-Y : 520X B2 Blade
    - GG-EC32506X1-Y/R : Processor Xeon E7-8890v3
    - GG-EC32306X1-Y/R : Processor Xeon E7-8880v3
    - GG-EC33203X1-Y/R : Processor Xeon E7-8893v3
    - GG-EC32205X1-Y/R : Processor Xeon E7-4850v3
    - GG-EC31903X1-Y/R : Processor Xeon E7-4820v3

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GG-EC32007X1-Y/R : Processor Xeon E7-4809v3

### 2. Improvements

- RAID setting parameter values changed because initial settings of onboard SAS3004 iMR have been changed.

### 3. Bug-fixes

None

### *Version 3.3.5*

#### 1. New Features

- Supported 1333MHz RDIMMs on CB520X B1 blade.

GG-MJ3N8G1X1-Y/R : 8GB memory, 2R, 1333

GG-MJ316G1X1-Y/R : 16GB memory, 2R, 1333