AMI YAFUFLASH User Guide

AMI YAFUFLASH User Guide for Intel® Server Board M10JNP2SB

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Document Information

Purpose

This document provides information on YafuFlash Utility.

This document has been proofed for use of the AMI Aptio 5.x YafuFLash utility software when updating the BIOS on the Intel® Server Board M10JNP2SB.

For further support for this document, please contact your Intel Customer Support Representative.

Audience

MegaRAC SP-X™ Customers and Customer Support Teams.

Change History

Date	Revision	Description
2019-10-21	1.00	Extracted from main SPX user guide
2020-03-18	1.01	Added legal disclaimers and branding for Intel usage.

YAFUFLASH

Yet Another Firmware Upgrade Flash (64 bit) is a tool used for flashing the BMC. This utility is used for flashing in both Linux and Windows environment. There are three types of mediums used to flash the BMC. They are,

· Network

· USB

· KCS

All the three mediums are applicable for Windows and Linux environment. The medium can be selected as per your requirement.

> *Note: YAFU based firmware update using Signed Hashed image is only possible if enough RAM is available to upload the full firmware image before the update starts.*

> *In YAFU firmware upgrade, only YAFU command set is allowed if **Enable IPMI Command handling during flashing** support is disabled in project configuration.*

> *YAFU flashing process has the following timeout values*

> ***LAN interface:** 3600 seconds*

> ***USB interface:** 1800 seconds*

> ***KCS interface:** 5400 seconds*

If Secure Boot Support is enabled in the PRJ, YAFUFlash options for Section Based Flashing or Interactive mode will not be used. Hence any feature or options that rely on Section Based Flashing or Interactive mode cannot be used when Secure Boot Support is enabled.

Requirements

YAFUFlash OS Compatibility

KCS/USB	LAN
Windows Server 2012	Ubuntu 16.04
Windows Server 2008	Windows 8.1
Windows Server 2016 Standard (Exclude Nano Server)	Ubuntu 14.04
Ubuntu Server 16.04	Windows 10
Ubuntu Server 14.04	MACOS 10.10
RHEL 7.2	Fedora 24
RHEL 6.5	Fedora 24
SLES Server 12.1	
SLES Server 11.4	

Installation in Windows

1. Open the command prompt in administrator mode and enter YafuFlash\Windows path.
2. This contains two files, **Yafuflash.exe** and **LIBIPMI.dll.**

Installation in Linux

1. OpenSSL is pre-requisite for YafuFlash
2. Open Terminal and go to **YafuFlash/Linux** path.
3. This contains Yafuflash tool.
4. Run **./Yafuflash** in the terminal.
5. Format: Yafuflash [OPTIONS] [MEDIUM] [FW_IMAGE_FILE],
Where Perform BMC Flash Update

' -?   Displays the utility usage

' -h   Displays the utility usage

' -V   Displays the version of the tool

' -e   List outs a few examples of the tool

    [OPTIONS]

– info	*Displays information about existing FW and new FW.*
-msi,-img-section-info	*Displays information about current FW Sections.*
-mi,-img-info	*Displays information about current FW Versions.*
– fb, -force-boot	*Option to FORCE BootLoader upgrade during full upgrade. Also, skips user interaction in Interactive upgrade mode. This option is not allowed with Interactive upgrade option.*
– pc, -preserve-config	*Option to preserve Config Module during full upgrade. If platform supports Dual Image, this option skips user interaction, preserves config and continues update process. This option is not allowed with interactive upgrade option.*
-q, -quite	*Use the option to show the minimum flash progress details.*
– i	*Option to interactive upgrade (Upgrade only required*

modules)**

-f, -full	Performs full upgrade in Interactive Upgrade mode.
- ipc, -ignore-platform-check	If this image is for a different platform, this option skips user interaction and continues update process.
-idi,-ignore-diff-image	If this image differs from the currently programmed image, this option skips user interaction and continues update process.
-isi,-ignore-same-image	If this image is same as the currently programmed image, this option skips user interaction and continues update process.
-iml,-ignore-module-location	If module(s) of this image is/are in different locations, this option skips user interaction and continues update process.
-ibv,-ignore-boot-version	If bootloader version is different and -force-boot is not specified, this option skips user interaction and continues update process. The bootloader will be updated.
-iri, -ignore–reselect-image	Option skips reselecting the active image.
-inc, -ignore-non-preserve-config	Option skips the restore to default factor setting if the image shares the same configuration area.
-mse, -img-select	Option to specify the Image to be updated 0
	- Inactive Image
	1 - Image 1
	2 - Image 2
	3 - Both Images
-rp,-replace-publickey	Option to replace the Signed Image Key in Existing Firmware.
-vcf, -version-cmp-flash	Option to skip flashing modules only if the versions are same by selecting (N/n). Option (Y/y) Selects full firmware upgrade mode.
-non-interactive	This option skips user interaction. This option cannot be used along with 'ignore-diff-image', 'ignore-same-image','-ignore-module-location'&'-ignore-boot-version' options.
-pXXX, -preserve-XXX	Option to preserve XXX configuration, where XXX falls in sdr, fru, sel, ipmi, auth, net, ntp, snmp,

	ssh, kvm and syslog. If the preserve status of the other configuration enabled then it will ask to confirm that those configuration is to be preserved.
-ieo,-ignore-existing-overrides	*Clears the existing overrides and preserves only the overrides given in command line if any.*
-msp,-split-img	*Option to flash the split image.*
	-f -XXX, -flash-XXX Option to flash specific section in non-interactive mode. If it is split image need to give split-image along with this option, where XXX denotes name of the section, e.g. -flash-conf.
-sc,-skip-crc	*Option to skip the CRC check*
-sf,-skip-fmh	*Option to skip the FMH check*
-d	*Option to specify the peripheral(Only for Dual Image Support)*
	<bit0> - BMC
	<bit1> - BIOS
	<bit2> - CPLD
	<BIT4> - ME
-a,-activate	*Option to activate peripheral devices*
	<BIT0> - BMC
	<BIT1> - BIOS
	<BIT2> - CPLD
-nr,-no-reboot	*Option to skip the reboot. With online-flash support, if conf/extlog is not preserved, BMC will*
still reboot.	
-bu,-block-upgrade	*Option to Flash using Block by Block method*
-netfn <NETFN>	*Option to specify AMI OEM Net Function (default 0x32)*
[MEDIUM]	
-cd	*Option to use USB Medium*
-nw,-ip,-u,-p,-host, _p	*Option to use Network Medium*
	'-ip' Option to enter IP, when using Network Medium
	'-host' Option to enter host name, When using Network Medium
	'-u' Option to enter UserName, When using Network Medium

	'-p' Option to enter Password, When using Network Medium'_p' Option to enter Port Number.
-kcs	*Option to use KCS medium.*
-serial	*Option to use serial interface.*
-term	*Option to use serial command, e.g. /dev/ttyS0.*
-baudrate	*Option to use baudrate of the serial terminal, e.g. 115200.*
[FW_IMAGE_FILE]	*Firmware image file name [rom.ima].*
-pe,-preserve-extlog	*Option to preserve extlog configuration during firmware flash.*

Note: '-preserve-config' and '-force-boot' option not be used in interactive upgrade

Examples for Network Medium

Eg1: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin rom.ima -info

Description: This command works with network medium using the ip 155.166.132.12, which displays the details of both existing firmware and new firmware.

Eg2: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin rom.ima

Description: This command works with network medium using the ip 155.166.132.12, which start to flash the new rom.ima to the existing firmware.

Eg3: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin rom.ima –force-boot

Description: This command works with network medium using the ip 155.166.132.12, which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade.

Eg4: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin rom.ima –preserve-config

Description: This command works with network medium using the ip 155.166.132.12, which start to flash the new rom.ima to the existing firmware with preserve config params.

Eg5: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin rom.ima –force-boot -preserve-config

Description: This command works with network medium using the ip 155.166.132.12, which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade and preserve config params.

Eg6: ./Yafuflash –nw –host spxbmc –force-boot –preserve-config rom.ima

Description: This command works with network medium using the host name spxbmc, which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade and preserve config params.

Eg7: ./Yafuflash –nw –ip 2000::2005 –force-boot rom.ima

Description: This command works with network medium using the ipv6 address 2000::2005,

which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade.

Eg8: ./Yafuflash –nw –ip 155.166.132.12 rom.ima -i

Description: This command works with network medium using the ip 155.166.132.12, which start to flash the new rom.ima using interactive upgrade mode and user will be prompt to select the Number of modules and module names to upgrade.

Eg9: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin -img-section-info

Description: This command works with network medium using the ip 155.166.132.12, which displays the details of Existing Firmware.

Eg10: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin -img-info

Description: This command works with network medium using the ip 155.166.132.12, which displays the details of existing firmware Version.

Eg11: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin public.pem –replace-publickey

Description: This command works with network medium using the ip 155.166.132.12, which replaces the public key in firmware.

Eg12 : ./Yafuflash -nw -ip 155.166.132.12 rom.ima -preserve-sdr

Description: This command works with network medium using the ip 155.166.132.12, which will ask for other configurations which are already set to be preserved to preserve or not and after that it will start to flash the new rom.ima to the existing firmware with preserving SDR as well as selected configurations.

Eg13 : ./Yafuflash -nw -ip 155.166.132.12 rom.ima -preserve-snmp -preserve-ntp

Description: This command works with network medium using the ip 155.166.132.12, which will ask for other configurations which are already set to be preserved to preserve or not and after that it will start to flash the new rom.ima to the existing firmware with preserving SNMP and NTP as well as selected configurations.

Eg14 : ./Yafuflash -nw -ip 155.166.132.12 rom.ima -preserve-fru -ignore-existing-overrides

Description: This command works with network medium using the ip 155.166.132.12, which starts to flash the new rom.ima to the existing firmware with preserving FRU configurations only.

Eg15: ./Yafuflash -nw -ip 155.166.132.12 rom.ima -preserve-fru -preserve-snmp -ignore-existing- overrides

Description: This command works with network medium using the ip 155.166.132.12, which starts to flash the new rom.ima to the existing firmware with preserving FRU and SNMP configurations only.

Eg16: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin rom.ima –ignore-reselect-image

Description: Yafuflash start full firmware upgrade with default active image. In this it skips the reselecting active image used to flash.

Eg17: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin rom.ima –ignore-non-preserve-config

Description: Yafuflash start full firmware upgrade, If the Images of both flash share the same Configuration area. Not preserving will restore to default factory settings, this option skips it

Eg18: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin –img-select 0 rom.ima

Description: This command works with network medium using the ip 155.166.132.12, which

starts to flash the new rom.ima to the existing firmware by selecting the active image to be flashed.

Eg19: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin –img-select 1 rom.ima

Description: This command works with network medium using the ip 155.166.132.12, which starts to flash the new rom.ima to the existing firmware by selecting the first image to be flashed.

Eg20: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin –img-select 2 rom.ima

Description: This command works with network medium using the ip 155.166.132.12, which starts to flash the new rom.ima to the existing firmware by selecting the second image to be flashed.

Eg21: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin –img-select 3 rom.ima

Description: This command works with network medium using the ip 155.166.132.12, which starts to flash the new rom.ima to the existing firmware by selecting both the images to be flashed.

Eg22: ./Yafuflash –nw –ip 155.166.132.12 rom.ima -quite

Description: This command works with network medium using the ip 155.166.132.12, which start to flash the new rom.ima with minimum progress details.

Eg23: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin –split-img boot.ima

Description: This command works with network medium to flash the boot split image.

Eg24: ./Yafuflash –nw–ip 155.166.132.12 –u admin –p admin –split-img root.ima

Description: This command works with network medium to flash the root split image.

Eg25: ./Yafuflash –nw–ip 155.166.132.12 –u admin –p admin rom.ima –flash-root –flash-conf

Description: This command works with network medium to flash root and conf section from rom. ima file. -flash-<xxx>, where xxx specifies the modules in rom.ima.

Eg26: ./Yafuflash –nw–ip 155.166.132.12 –u admin –p admin boot.ima -split-img –flash-boot

Description: This command works with network medium to flash root from boot.ima split image. -flash-<xxx>, where xxx specifies the modules in boot.ima.

Eg27: ./Yafuflash –nw–ip 155.166.132.12 –u admin –p admin root.ima -split-img –flash-www – flash-osimage

Description: This command works with network medium to flash www and osimage from root. ima split image. -flash-<xxx>, where xxx specifies the modules in root.ima.

Eg28: ./Yafuflash –nw–ip 155.166.132.12 –u admin –p admin rom.ima -preserve-extlog

Description: This command works with network medium to preserve extended log configuration.

Eg29: ./Yafuflash –nw–ip 155.166.132.12 –u admin –p admin root.ima –split-img -preserve-extlog

Description: This command works with network medium to preserve extended log configuration from split image.

Eg30: ./Yafuflash –nw–ip 155.166.132.12 –u admin –p admin root.ima –d 1 rom.ima

Description: This command works with network medium to flash the image on specific peripheral device.

Eg31: ./Yafuflash –nw–ip 155.166.132.12 –u admin –p admin root.ima –d 1 root.ima –split-img
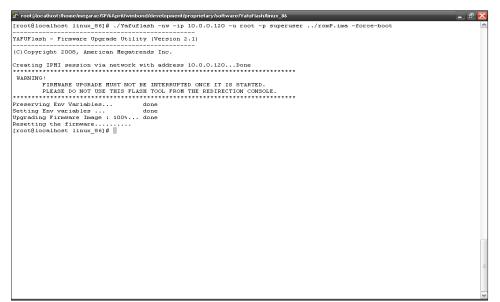
Description: This command works with network medium to flash the split image on specific peripheral device.

Eg32: ./Yafuflash –nw–ip 155.166.132.12 –u admin –p admin -bu root.ima.

Description: This command works with network medium to flash the image on specific peripheral device by block by block upgrade.

Screen: If Existing and current images are same

FG: 2 - Existing and current are different

```
[root@muthu Linux_x86_32]# ./Yafuflash -nw -ip 10.0.3.5 -u admin -p admin rom.ima -i
--------------------------------------------------
YAFUFlash - Firmware Upgrade Utility (Version 2.11)
--------------------------------------------------
(C)Copyright 2008, American Megatrends Inc.

Creating IPMI session via network with address 10.0.3.5...Done
==============================================================================
                              Firmware Details
==============================================================================
   RomImage                   ExistingImage from Flash

   ModuleName   Description   Version    ModuleName   Description   Version
1. boot         BootLoader    1.4.00     boot         BootLoader    1.4.00
2. conf         ConfigParams  1.4.00     conf         ConfigParams  1.4.00
3. bkupconf                   1.4.00     bkupconf                   1.4.00
4. root         Root          1.4.00     root         Root          1.4.00
5. osimage      Linux OS      1.4.00     osimage      Linux OS      1.4.00
6. www          Web Pages     1.4.00     www          Web Pages     1.4.00
7. lmedia                     1.4.00     lmedia                     1.4.00
8. hornet                     1.4.00     hornet                     1.4.00

For Full Firmware upgrade,Please  type (0)  alone
For Module Upgrade enter the total no. of Modules to Upgrade
Enter your choice : 4
Enter the Module Name to Update : boot
```

FG: 3 - Interactive Upgrade Mode

Eg 33: ./Yafuflash –nw –ip 155.166.132.12 –u admin –p admin rom.ima –netfn 0x36
Description: This command works with network medium to flash the image using 0x36 as AMI OEM Net Function instead of default AMI OEM Netfn 0x32.

Examples for USB Medium

Power Save Mode should be disabled for Flashing with Yafu USB Interface.

Eg1: ./Yafuflash –cd rom.ima –info

Description: This command works with USB medium which displays the details of both Existing Firmware and new firmware.

Eg2: ./Yafuflash –cd rom.ima

Description: This command works with USB medium which start to flash the new rom.ima to the existing firmware.

Eg3: ./Yafuflash –cd rom.ima –force-boot

Description: This command works with USB medium which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade.

Eg4: ./Yafuflash –cd rom.ima –preserve-config

Description: This command works with USB medium which start to flash the new rom.ima to the existing firmware with preserving config params.

Eg5: ./Yafuflash –cd rom.ima –force-boot –preserve-config

Description: This command works with USB medium which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade and preserving config params.

Eg6: ./Yafuflash –cd rom.ima -i

Description: This command works with USB medium, which start to flash the new rom.ima using interactive upgrade mode and user, will be prompt to select the number of modules and module names to upgrade.

Eg7: ./Yafuflash –cd -img-section-info

Description: This command works with USB medium which displays the details of Existing Firmware.

Eg8: ./Yafuflash –cd -img-info

Description: This command works with USB medium which displays the details of Existing Firmware Version.

Eg9: ./Yafuflash –cd public.pem –replace-publickey

Description: This command works with USB medium which replaces the public key in Existing Firmware.

Eg10: ./Yafuflash -cd rom.ima -preserve-sel -preserve-ipmi

Description: This command works with USB medium, which will ask for other configurations which are already set to be preserved to preserve or not and after that it will start to flash the new rom.ima to the existing firmware with preserving SEL and IPMI as well as selected configurations.

Eg11: ./Yafuflash -cd rom.ima -preserve-sel -ignore-existing-overrides

Description: This command works with USB medium, which start to flash the new rom.ima to the existing firmware with preserving FRU configurations only

Eg12: ./Yafuflash –cd rom.ima –ignore-reselect-image

Description: Yafuflash start full firmware upgrade with default active image. In this it skips the reselecting active image used to flash.

Eg13: ./Yafuflash –cd rom.ima –ignore-non-preserve-config

Description: Yafuflash start full firmware upgrade, If the Images of both flash share the same Configuration area. Not preserving will restore to default factory settings, this option skips it.

Eg14: ./Yafuflash -cd –img-select 0 rom.ima

Description: This command works with USB medium, which starts to flash the new rom.ima to the existing firmware by selecting the active image to be flashed.

Eg15: ./Yafuflash -cd –img-select 1 rom.ima

Description: This command works with USB medium, which starts to flash the new rom.ima to the existing firmware by selecting the first image to be flashed.

Eg16: ./Yafuflash -cd –img-select 2 rom.ima

Description: This command works with USB medium, which starts to flash the new rom.ima to the existing firmware by selecting the second image to be flashed.

Eg17: ./Yafuflash -cd –img-select 3 rom.ima

Description: This command works with USB medium, which starts to flash the new rom.ima to the existing firmware by selecting both the images to be flashed.

Eg18: ./Yafuflash –cd rom.ima -quite

Description: This command works with USB medium, which start to flash the new rom.ima with minimum progress details.

Eg19: ./Yafuflash –cd –split-img boot.ima

Description: This command works with USB medium to flash the boot split image.

Eg20: ./Yafuflash –cd –split-img root.ima

Description: This command works with USB medium to flash the root split image.

Eg21: ./Yafuflash –cd rom.ima –flash-root –flash-conf

Description: This command works with USB medium to flash root and conf section from rom.ima file. -flash-<xxx>, where xxx specifies the modules in rom.ima.

Eg22: ./Yafuflash –cd boot.ima -split-img –flash-boot

Description: This command works with USB medium to flash root from boot.ima split image.

-flash-<xxx>, where xxx specifies the modules in boot.ima.

Eg23: ./Yafuflash –cd root.ima -split-img –flash-www –flash-osimage
Description: This command works with USB medium to flash www and osimage from root.ima split image. –flash-<xxx>, where xxx specifies the modules in root.ima

Eg24: ./Yafuflash –cd rom.ima -preserve-extlog

Description: This command works with USB medium to preserve extended log configuration.

Eg25: ./Yafuflash –cd root.ima –split-img -preserve-extlog

Description: This command works with USB medium to preserve extended log configuration

from split image.

Eg26: ./Yafuflash –cd root.ima –d 1 rom.ima

Description: This command works with USB medium to flash the image on specific peripheral

device.

Eg27: ./Yafuflash –cd root.ima –d 1 root.ima –split-img

Description: This command works with USB medium to flash the split image on specific peripheral

device.

Eg28: ./Yafuflash –cd rom.ima -netfn 0x36

Description: This command works with USB medium to flash the image using 0x36 as AMI OEM Net Function instead of default AMI OEM Netfn 0x32.

Examples for KCS Medium

Eg1: ./Yafuflash –kcs rom.ima -info

Description: This command works with KCS medium which displays the details of both Existing Firmware and new firmware.

Eg2: ./Yafuflash –kcs rom.ima

Description: This command works with KCS medium which start to flash the new rom.ima to the existing firmware.

Eg3: ./Yafuflash –kcs rom.ima –force-boot

Description: This command works with KCS medium which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade.

Eg4: ./Yafuflash –kcs rom.ima –preserve-config

Description: This command works with KCS medium which start to flash the new rom.ima to the existing firmware with preserving config params.

Eg5: ./Yafuflash –kcs rom.ima –force-boot –preserve-config

Description: This command works with KCS medium which start to flash the new rom.ima to the existing firmware with FORCE BootLoader Upgrade and preserving config params.

Eg6: ./Yafuflash –kcs rom.ima -i

Description: This command works with KCS medium, which start to flash the new rom.ima using interactive upgrade mode and user, will be prompt to select the Number of modules and module names to upgrade.

Eg7: ./Yafuflash –kcs -img-section-info

Description: This command works with KCS medium which displays the details of Existing Firmware.

Eg8: ./Yafuflash –kcs -img-info

Description: This command works with KCS medium which displays the details of Existing Firmware Version.

Eg9: ./Yafuflash –kcs public.pem –replace-publickey

Description: This command works with KCS medium which replaces the public key in Existing Firmware.

Eg10 : ./Yafuflash -kcs rom.ima -preserve-sel -preserve-ipmi

Description: This command works with KCS medium, which will ask for other configurations which are already set to be preserved to preserve or not and after that it will start to flash the new rom.ima to the existing firmware with preserving SEL and IPMI as well as selected configurations.

Eg11: ./Yafuflash -kcs rom.ima -preserve-sel -ignore-existing-overrides

Description: This command works with KCS medium, which start to flash the new rom.ima to the existing firmware with preserving FRU configurations only

Eg12: ./Yafuflash –kcs rom.ima –ignore-reselect-image

Description: Yafuflash start full firmware upgrade with default active image. In this it skips the reselecting active image used to flash.

Eg13: ./Yafuflash –kcs rom.ima –ignore-non-preserve-config

Description: Yafuflash start full firmware upgrade, If the Images of both flash share the same Configuration area. Not preserving will restore to default factory settings, this option skips it

Eg14: ./Yafuflash -kcs –img-select 0 rom.ima

Description: This command starts to flash the new rom.ima to the existing firmware by selecting the active image to be flashed.

Eg15: ./Yafuflash -kcs –img-select 1 rom.ima

Description: This command starts to flash the new rom.ima to the existing firmware by selecting the first image to be flashed.

Eg16: ./Yafuflash -kcs –img-select 2 rom.ima

Description: This command starts to flash the new rom.ima to the existing firmware by selecting the second image to be flashed.

Eg17: ./Yafuflash -kcs –img-select 3 rom.ima

Description: This command starts to flash the new rom.ima to the existing firmware by selecting both the images to be flashed.

Eg18: ./Yafuflash –kcs rom.ima -quite

Description: This command works with KCS medium, which start to flash the new rom.ima with minimum progress details.

Eg19: ./Yafuflash –kcs –split-img boot.ima

Description: This command works with KCS medium to flash the boot split image.

Eg20: ./Yafuflash –kcs –split-img root.ima

Description: This command works with KCS medium to flash the root split image.

Eg21: ./Yafuflash –kcs rom.ima –flash-root –flash-conf

Description: This command works with KCS medium to flash root and conf section from rom.ima file. -flash-<xxx>, where xxx specifies the modules in rom.ima.

Eg22: ./Yafuflash –kcs boot.ima -split-img –flash-boot

Description: This command works with KCS medium to flash root from boot.ima split image.

-flash-<xxx>, where xxx specifies the modules in boot.ima.

Eg23: ./Yafuflash –kcs root.ima -split-img –flash-www –flash-osimage

Description: This command works with KCS medium to flash www and osimage from root.ima split image. -flash-<xxx>, where xxx specifies the modules in root.ima.

Eg24: ./Yafuflash –kcs rom.ima -preserve-extlog

Description: This command works with KCS medium to preserve extended log configuration.

Eg25: ./Yafuflash –kcs root.ima –split-img -preserve-extlog

Description: This command works with KCS medium to preserve extended log configuration from split image.

Eg26: ./Yafuflash –kcs root.ima –d 1 rom.ima

Description: This command works with KCS medium to flash the image on specific peripheral device.

Eg27: ./Yafuflash –kcs root.ima –d 1 root.ima –split-img

Description: This command works with KCS medium to flash the split image on specific peripheral device.

Eg28: ./Yafuflash –kcs rom.ima –netfn 0x36

Description: This command works with KCS medium to flash the image using 0x36 as AMI OEM Net Function instead of default AMI OEM Netfn 0x32.