

FWA-3051 QSG







Version	Date	Handled by	Note
V01	2023/08/24	Alan.Ku	Release version



Agenda

- Server Front Side
- □ Server Rear Side
- **DIMMs** Population
- □ Access the device via console
- WebUI Access
- □ OS installation



Server Front Side [1/4]- Overview







Server Front Side [2/4]- Status LEDs

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ر ان ان ان ان ان ان	Console	IPMI	1 MG	2

No.	LED Name	Software Controllable	PCA9554 GPIO Pin (to LED signal map)
(4)	SW_DEF led	Yes	P2/P3 (Green/Amber)
3	Alert led	Yes	P1 (Amber)
2	Locate led	Yes	PO (Blue)
1	Power led	Νο	Green



Server Front Side [3/4]- NMC slots

Lose screws





Server Front Side [4/4]- NMC modules



2. Push to the end 74FE4



Server Rear Side [1/5]- Overview







Server Rear Side [2/5]- Remove top cover

1. Remove all screw





2. Push top cover backward





Server Rear Side [3/5]- Install 2.5' HDD/SSD

1. Remove all screw



2. Take out 2.5' HDD/SSD holder



3. Take SATA cables and HDD/SSD screws





Server Rear Side [4/5]- Install 2.5' HDD/SSD

3. Tight screws



4. Plug cables to following connectors





Server Rear Side [5/5]- Install M.2 disks

Insert 2280 M.2 disk, slightly push down, tight the screw.





DIMMs Population [1/4]- Notes



Insert memories A1 > B1 > E1 > F1



DIMMs Population [2/4]- Opening DIMM latches

□ Step#1 – Open the latches on the left and right sides of the DIMMs by turning it outwards as indicated by the arrows below:





DIMMs Population [3/4]- DIMM Key Alignment

□ Step#2 – Select DIMM orientation so that the keys in the DIMM module and socket match



Step#3 – Insert the DIMM from the top using the guide rails on the left and right of the DIMM sockets





DIMMs Population [4/4]- fixing DIMM in the Socket

□ Step#4 – Put your thumbs near the right and left end of the DIMM and press down the DIMM evenly until the white latches fully close with a click





Access the device via Console

□ Step#1 – Power on the device

- Prerequisite:
 - ✓ Get AC: 100 240VAC, 50-60Hz/ DC: -48VDC, 800W
- Device will boot:
 - ✓ Correct behavior: you can hear FAN rotating in maximum speed for a while then down and also the Power LEDs should light up



Picture depicted how to plug in the PSU cable



Picture depicted the light color while device booting



Access the device via Console

□ Step#2 – Access the device

• Prerequisite:

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- \checkmark Console cable and PC + Terminal
- Connect the PC to the server console

Terminal settings



Access the device via Console



Picture depicted successfully server access via console





In order to access the WebUI, we need to configure the IP address. In this part, we will describe how to set up WebUI IP address via BIOS



NS-SI channel #1



WebUI [1/3]- Configure BMC IP from BIOS

□ Step#1- Press **DEL** after boot up to enter BIOS, and select "Server Mgmt" page.

🗬 COM3 - PuTTY			—	\times
Main Platform Hardward	Aptio Setup e Post & Boot	• - AMI Security	Save & Exit Server Mgmt	
BMC Self Test Status OS Watchdog Timer OS Wtd Timer Timeout OS Wtd Timer Policy > BMC network configuration > Bmc self test log > System Event Log	PASSED [Disabled] 10 [Reset]		If enabled, starts a BIOS timer which can only be shut off by Management Software after the OS loads. Helps determine that the OS successfully loaded or follows the	\ ^ * * * * + V
			<pre> ><: Select Screen ^v: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit_</pre>	
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WebUI [2/3]- Configure BMC IP from BIOS

□ Step#2- Choose "BMC network configuration"

Putty		- 🗆	×
	Aptio Setup - AMI		^
1	Server Mgmt		~
/		ALC-1	
Lan channel I		Select to configure LAN	
Configuration Address	[Unspecified]	<pre>^[channel parameters</pre>	21
source		* statically or	<u></u>
Current Configuration	StaticAddress	* dynamically (by Blos or	×1
Address source		* BMC). Unspecified	*1
Station IP address	0.0.0.0	* option will not modify	*1
Subnet mask	0.0.0.0	* any BMC network	+1
Station MAC address	74-FE-48-55-17-0F	* parameters during BIOS	νI
Router IP address	0.0.0.0	*1	1
Router MAC address	00-00-00-00-00	*	1
I contraction of the second se		* ><: Select Screen	1
Lan channel 2		* ^v: Select Item	1
Current Configuration	Unspecified	* Enter: Select	1
Address source		* +/-: Change Opt.	
Station IP address	0.0.0.0	* F1: General Help	- i
Subnet mask	0.0.0.0	* F2: Previous Values	- i
Station MAC address	00-00-00-00-00-00	+ F3: Optimized Defaults	- i -
Router IP address	0.0.0.0	vIF4: Save & Exit	i
		IESC: Exit	
\			/
Version	2.22.1289 Copyright (C)	2023 AMT	
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WebUI [3/3]- Configure BMC IP from BIOS

□ Step#3- Set "Configuration Address" -> "Static", and then key in the IP address and subnet mask.

*You can choose DHCP to obtain an IP address from your DHCP server.



□ Step#4- Save and Exit



WebUI access from browser

After completing the steps above (WebUI IP configured via either BIOS or ipmitool), open your favorite browser and enter the WebUI IP as below: <u>https://BMCIP</u>

The default login credentials:

- User: administrator
- Password: advantech

Node Explorer User Manual https://www.advantech.com/support/det ails/manual?id=1-1MU1KB1





OS installation

You could install your OS by following one of the below methods:

Method #1- Via Console Redirection

Reference: <u>https://advantech-ncg.zendesk.com/hc/en-us/articles/360017541092-How-to-install-Linux-in-non-VGA-</u> system-with-console-redirection

Method #2- Via BMC Web UI

Reference: <u>https://advantech-ncg.zendesk.com/hc/en-us/articles/360047012912-How-to-install-operating-system-</u> remotely-through-BMC-Web-UI-Remote-Storage-



Go Together, We Go Far and Grow Big

