

# **FWA-1013 QSG**

AE , Sam Chang 01/19<sup>th</sup> , 2023





Version	Date	Handled by	Note
Draft	2023/01/19	Sam168.Chang	Draft
1.0		Sam168.Chang	DIMM population
1.5		Sam168.Chang	BIOS update
2.0		Sam168.Chang	Revised



#### Agenda

- □ System Overview
- □ CPU location
- DIMM slot ID & Population
- □ Access the server via Monitor with VGA port
- □ Access the server via Console port
- □ Access the server via WebUI Access



#### FWA-1013 Front IO (include ID information)



B

A	Power button	F	RJ45 console+ 2x USB ports
В	SW defined button	G	4x 10G SFP+ ports
	(SW_DEF_BTN)		-E822-C SFP DecpX(0,1,2,3)
С	System & Status LEDs	Н	4x 1GE RJ45 ports w/ Advanced LAN bypass
	(SW_DEF_LED/Alert_LED/ID_LED)		-E822-C 1GbE becpX(4,5,6,7)
D	GE RJ45 port for IPMI	I	4x 1GE RJ45 ports
E	2X 1GE RJ45 ports for MGMT (I210-AT)	J	Advantech NMC Slot
	- i225 b0Xp0(b01p0/b02p0)		

#### **FWA-1013 LED definition**

• For more details about SW Define Button and SW Define LED, please refer to "Advantech Linux Platform Software Guide for FWA-1013"





#### FWA-1013 Rear IO

A ≹≹ ↓	B DC-IN 2 O 12V	DC-IN 1	PoE 12V FAN 2	FAN 1	••••••••••••••••••••••••••••••••••••••	G	

Α	Ground screw	F	VGA Reserved (by SKU Option)	
В	Single or Dual 12V DC input jack (by BOM Option)	G	Reserved for Wi-Fi Antenna (by SKU Option)	
С	Single or Dual 12V DC input jack (by BOM Option)	н	FAN1	
D	PoE 12V DC input (by BOM Option)	I	FAN2	
E	Reserved for Wi-Fi Antenna (by SKU Option)			
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#### **NMC Insert**





#### **3** selections to access platform

There are 3 ways to access platform for OS image installation

- VGA port for OS in TXT & GUI mode
- Console port for OS in TXT only
- > BMC Web for OS in TXT & GUI mode

Following pages will introduce page by page.

Power on the device

- Prerequisite:
  - ✓ Get AC 100-240V @ 50-60Hz, full range
- 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



#### Access the server via Monitor with VGA port

#### □ Step#1 – Access the device

- Connect D-Sub 9 via VGA cable to Monitor and 2 USB ports for keyboard and USB stick
- OS installation without GUI and TXT mode only, please check with the OS vendor for details.



*Picture depicted the connector of VGA D-Sub 9. VGA output in Front Panel.* 



*Picture depicted the GUI for Ubuntu installation on Monitor* 



## Access the server via Console port [1/3]





**DB9** Connector

- □ Step#2 Access the device
- Connect the PC to the server console
- Use Terminal (like PuTTY) with Baud rate: 115200
   Data bits : 8

Stop bits: 1

 OS installation without GUI and TXT mode only, please check with the OS vendor for details





## Access the server via Console port [2/3]



Picture depicted successfully server access via console if no OS installed



## Access the server via Console port [3/3]



Picture depicted boot option priorities in Post & Boot page from BIOS Menu



## Access the server via BMC WebUI Access[1/5]

#### □ Step#3 Setup BMC IP Address

Press **DEL** after boot up to enter BIOS, and select "Server Mgmt" page, then "BMC network configuration".

		t a boot boothing bays a chir	Server Mgmt	
BMC Self Test Status OS Watchdog Timer OS Wtd Timer Timeout OS Wtd Timer Policy > BMC network configurati > BMC self test log > System Event Log	PASSED [Disabled] 10 [Reset] DN	Configure BMC network parameters	BMC network configuration ***********************************	A Select to configure LAN A channel parameters statically or dynamically(by BIOS or BMC). Unspecified option will not modify ddress source MC network ers during BIOS T
Ver 2 21 1277 Copuright (		<pre>fl: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save &amp; Exit ESC: Exit</pre>	Subnet mask Station MAC address Router IP address Router MAC address 00-00-00-00-00 Lan channel 2 Vec. 2 21 1277 Copyright (C) 2022 Amer	ect Item Select 0-00 F1: General Help F2: Previous Values F3: Optimized Defaults ▼ F4: Save & Exit ESC: Exit



## Access the server via BMC WebUI Access [2/5]

After completing the steps above (BMC Web ip configured via either Bios or iptool), open your favorite browser

the enter the webui ip as below: <u>https://BMCIP</u>

The default login credentials by default:

- Username: administrator
- Password: advantech

<b>AD\ANTECH</b>	FWA-1013				
	Overview	Power Control 🧮 BIOS Post 🔿 Refresh 🌐 English 🅣 Logout			
Overview	General Information	Firmware Versions	Software Versions	Network Information	
Health Advanced Inventory Sensor Status Event Log Web Alert Session Configuration Alerts Network Extra Configurations Maintenance BMC Interface Control RAID Management Remote Control System Power Control Front Panel	<ul> <li>BMC Up Time 4 Hours 9 Minutes 38 Seconds</li> <li>BMC Booted on January 19, 2023 13:22:45 +08:00</li> <li>Hostname (none)</li> </ul>	>         BL 0.26.00000000           >         BMC 0.46.00000000           >         BMCONF 0.20.00000000           >         FPGA 0.09.00000000           >         BIOS 0.20.00000000           >         NVRAM 5.00.00000000	<ul> <li>Advantech Node Explorer 1.25.0 3220</li> <li>Advantech IKVM 1.11.2 375</li> <li>Advantech Remote Storage 1.0.10 72</li> <li>More</li> </ul>	LAN Channel #1           >         MAC Address c4:00:ad:ed:8c:16           >         IPv4 mode DHCP           >         IPv4 Address 172:17:10:184           LAN Channel #2         MAC Address 00:0b:ab:10:13:04           >         IPv4 mode Static           >         IPv4 mode Static           >         IPv4 Address 10:234:147.1	
iKVM Redirection Remote Serial Console					



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## Access the server via BMC WebUI Access [4/5]

Remote Control  $\rightarrow$  iKVM Redirection, select the OS image through Remote Storage for installation, Save Changes and Reset from **Save & Exit** page in BIOS Menu



## Access the server via BMC WebUI Access [5/5]

Select "UEFI: BMC Virtual CDROM" as Boot Option #1 from **Post & Boot** in BIOS Menu.

The OS installation guide GUI popup after BIOS reset



#### Go Together, We Go Far and Grow Big

