Advantech AE Technical Share Document

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Category	🗌 FAQ 🔳 SOP	Release Note	🗆 Internal 🔳 External
Related OS	None		
Abstract	BMC Quick Start guide		
Keyword	ВМС		
Related Product	AIR-500D,ARK-7060		

■ **Description**: This is a quick start guide for BMC function.

Analysis and Solution:

Contend

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Setup connection to BMC server

1. First connect RJ45 to BMC LAN Port.



2. Check BIOS \rightarrow Server Mgmt \rightarrow BMC network configuration \rightarrow Station IP address.



3. On other device, open the web-browser to visit BMC(e.g. https://172.22.20.203).

S Advantech-BMC × +	
← → C ▲ 不安: https://172.	22.23.203/#login
📕 work 📕 tmp	
	Advantech-BMC

4. Login with account: <u>admin</u>, password: <u>admin</u> (The first time you log in, you will be asked to change your password.

Advantech-BMC
admin

US - English
✓ Remember Username
Signmein
I forgot my password

BMC function introduction

Dashboard:

Show boot time and more.

Advantech-BMC	≡	2	iA	US - English	•	¢ Sync	🔁 Refresh	💄 admin 🗸
Firmware Information 12.04.22 Feb 25 2022 15:44:19 CST Hoat Offline	Dashboard Control Panel							
Quick Links 🔻	0 d 0 ^{hrs}	2						
🍪 Sensor	Power-On Hours	Access Logs						
FRU Information		More Inio 🖌						
Logs & Reports >								
Settings								
Remote Control								
Image Redirection								
C Power Control								
Maintenance								
Gh. Circo out								

Sensor:

Read voltage
< temperature or fan info.

12.04.22 Feb 25 2022 15:44:19 CST	Sensor Reading Live reading of all sensors	
Host Online	# Home > Sensor Reading	
Quick Links 👻		0
# Dashboard	□ Critical Sensors (2)	
🍘 Sensor		
3 FRU Information	1.28Volts 1.15Volts	
Logs & Reports >		
Settings		
🖵 Remote Control	1V2_VDDQ PVCCIO_P1V05	
Image Redirection	Discrete Sensor States (1)	
C Power Control	-	-
	Sensor Name S	State
	♦ SystemBMC_WTD	No state defined

□ Normal Sensors	(10)	
Sensor Name	Reading	Behavior
J~ 12V	12 Volts	
J⊭ 3V3	3.27 Volts	
J≁ 3V3SB	3.37 Volts	
Jr- 5V	5.04 Volts	
Jv- 5VSB	5.04 Volts	
♣ CPU_FAN_TACHO	750 Rpm	
L CPU_TEMP	27 °C	
\$ SYS_TEMP	22 °C	

FRU Information :

Show your device FRU Information.

Host Offline	🖀 Home > FRU							
Quick Links								0
🖀 Dashboard	Available FRU Devices							
🚳 Sensor	FRU Device ID	0 🗸						
FRU Information	FRU Device Name	Board FRU						
Logs & Reports			_			_		
Settings	Chassis Information			Board Information		Pr	roduct Information	
🖵 Remote Control	Chassis Information Area Format Version	1		Board Information Area Format Version	1	P	roduct Information Area ormat Version	1
Image Redirection	Chassis Type	Main Server		Language	English	L	anguage	English
ර් Power Control	Chassis Part Number	Chassis		Manufacture Date Time	Thu Jun 2 11:52:00	Ρ	roduct Manufacturer	Advantech
🖋 Maintenance						Ρ	roduct Name	AIR-500D
Sign out	Chassis Serial Number			Board Manufacturer	Advantech	P	roduct Part Number	AIR500DU0A1-
er signout				Board Product Name	ADB-7060			ES
				Board Serial Number	AKS0202978	P	roduct Version	A101-2
				Board Part Number	96967060000	Ρ	roduct Serial Number	KSA5652818
						A	sset Tag	

Logs & Reports

IPMI Event Log

Contract Con	Event Log All sensor event logs # Home > EventLog	8
A Dashboard	Filter by Data Start Data O Filter by type All Swatter	
Sensor FRU Information	All Sensors	
📶 Logs & Reports 🛛 👻		
 IPMI Event Log Audit Log 	Event Log: 300 out of 735 event entries	
Video Log Settings	January 2023 ID: 664 Platform sensor of type chassis logged a	
Remote Control	250 transition to Running	
Image Redirection	100 50 0 1D: 663 CPU_TEMP sensor of type temperature logged	
O Power Control	Pre-init Timestamp January 2012 January 2023 a upper non recoverable going high	
	ID: 662 CPU_TEMP sensor of type temperature logged	

Audit Log :

Show login and login out logs.

# Dashboard		8
🚳 Sensor	Filter by Date Start Date O End Date O	
FRU Information		
🔟 Logs & Reports 🛛 🗡	Audit Log: 5 out of 5 event entries	
» IPMI Event Log	February 2023	
» Audit Log	ID: 5 February 1st 2023, 2:10:37 pm AMI9A4CCDB3634E spx_restservice: spx_restservice [1120 : 1120 INFO]https Login from	
» Video Log	IP:172.22.221.228 user:admin -	
Settings	ID: 4 February 1st 2023, 1:43:18 pm AMI9A4CCDB3634E spx_restservice: spx_restservice [1120 : 1120 INFO]https Login from IP:172.22.221.228 user:admin -	
Le Remote Control		
Image Redirection	ID: 3 February 1st 2023, 12:14:06 pm AMI9A4CCDB3634E spx_restservice: spx_restservice [1120:1120 INFO]HTTPS logout from IP:172.22.221.228 user:admin -	
O Power Control		
	D: 2 February 1st 2023, 10:34:01 am AMI9A4CCDB3634E spx_restservice: spx_restservice [1120:1120 INFO]nttps Login from IP:172.22.221.228 user:admin -	
	ID: 1 February 1st 2023, 10:32:55 am AMI9A4CCDB3634E spx_restservice: spx_restservice [1120 : 1120 INFO]https Login from IP:172.22.221.228 user:admin -	
	0	

Video Log :

1. Show Video you want to record.

Firmware Information 12.04.22 Feb 25 2022 15:44:19 CST Mast Offline	Video Log All video event logs ♣ Home > Video Log	
Quick Links		?
希 Dashboard		
🏤 Sensor	Filter by Date Start Date O -	
FRU Information		
📶 Logs & Reports 🛛 👻	Video Log: 0 out of 0 event entries	
» IPMI Event Log	0	
» Audit Log		
» Video Log		
Settings		
Remote Control		
Image Redirection		
C Power Control		

2. Video log can be set by Settings \rightarrow Video Recording.



KVM Remote Control:

1. Press Remote Control and Launch H5Viewer.

Advantech-BMC	=	М	₽	US - English 💌	¢ Sync	🔁 Refresh	💄 admin 🗸
Firmware Information 12.04.22 Feb 25 2022 15:44:19 CST	Remote Control Remote KVM						
Host Offline	# Home > Remote Control						
Quick Links 🔻							0
# Dashboard	H5Viewer						
🚯 Sensor							
FRU Information	Click here to go to Remote Session Settings. 2ω						
Legs & Reports	C [*] Launch H5Viewer						
Settings 1.4							
Remote Control							
Image Redirection							
O Power Control							
 Sensor FRU Information Logs & Reports > Settings 1 Remote Control Image Redirection Power Control Maintenance Sign out 	Click here to go to Remote Session Settings. 2 . C* Launch H5Viewer						

2. open KVM to remote control your device.



Virtual media install :

1. First press choose file in KVM screen upper right corner



2. Choose image and Open.

> biosserver >	BMC_ROOT > 08_Image	> ISO > U	lbuntu > 18.04
名稱	^	~	修改日期
Jubuntu-18.0	04.5-desktop-amd64		2020/8/17 上午 10:52

3. When it done, check the check box, press Media Boost bottom and reboot.

0	遠端 KVI	M [172.2	2.16.162]	- [1024 >	(768] - Goog	gle Chron	ne				-		×
4	、不安全	172	.22 <mark>.1</mark> 6.1	62/view	ver.html					4.		<u>5.</u>	
6	停止	KVM						© CD	映像擋: ubuntu-1 6.	8.04.5-desktop-amd64.iso (82 KB)	Media B	ioos 🚺	等止媒體
	影像▼	滑鼠▼	選項▼	鍵盤▼	傳送金鑰▼	熱鍵・	影像錄製 🗸	電源▼	使用中的使用者▼	幫助▼			
								電源	重啟	:03] Redirected with media boost mode	Zoom	100 %	₽ Ø
	Ubun	tu 18.0	4.5 LTS	5 amd64	4	_	_	<mark>7.</mark> 立即	關閉				t ‡ ^

4. Enter BIOS→ Choose "UEFI:AMI Virtual CDROMO 1.00", and start virtual media install.



Power control :

Choose Power action to control your device



BIOS • BMC update :

1. Press Maintenance → Frimware Update



2. Choose BIOS or BMC image file (need to end with <u>.bin</u> or <u>.ima</u>)

irmware Upda	ate				
Home > Maintenance >	Firmware Update				
		0			
Note: Following are the Fir this page. • Dual BMC Firr • BIOS Firmwar	mware update methods and comp nware update. re update	onents supported in			
Select Firmware Imag	e	3.₀			
	_	Choose file			
Start firmware upda	te				
Start firmware upda	te				
Start firmware upda	RC > Desiton > bios	4 8 0 Saar	h bios		>
Start firmware upda Open $\rightarrow \sim \uparrow$ $$ > This	s PC > Desktop > bios	v ð ,≏ Searc	h bios		>
Start firmware upda Open - → × ↑ → This Organize マ New folder	s PC > Desktop > bios	ע פֿ ג Searc	h bios		> ?
Start firmware upda Open → → ↑ ↑ → This Drganize → New folder ubuntu ↑ → Tistst ⊕	s PC > Desktop > bios r Name 4. ^	マ ひ Searc Date modified	h bios	Type	>
Start firmware upda Open - → ~ ↑ · This Organize ▼ New folder ubuntu ^ 工績報告	te s PC > Desktop > bios r Name 4. 70600000060X007.bin	✓ ひ Search Date modified 1/18/2023 4:27 F	h bios	Type BIN File	>
Start firmware upda Open → ~ ↑ → This Organize → New folder ubuntu ^ 工績報告 OneDrive - advant	te s PC > Desktop > bios r Name 4. ^ 10600000060X007.bin	✓ ひ 夕 Searce Date modified 1/18/2023 4:27 F	h bios	Type BIN File	> ?
Start firmware upda Open → ~ ↑ → This Organize マ New folder ubuntu ^ 工績報告 OneDrive - advant This PC	te s PC > Desktop > bios r Name 4. ^ T0600000060X007.bin	✓ Č Searce Date modified 1/18/2023 4:27 P	h bios	Type BIN File	> ?
Start firmware upda Open → ~ ↑ ↓ This Organize → New folder ubuntu ^ 工績報告 OneDrive - advant This PC 3D Objects	r Name 4. 70600000060X007.bin	✓ Č Date modified 1/18/2023 4:27 F	h bios	Type BIN File	> ?
Start firmware upda Open → → ↑ ♪ This Organize ▼ New folder ubuntu ↓ 山腹報告 OneDrive - advant ■ This PC ③ 3D Objects ■ Desktop ■ Documents	te s PC > Desktop > bios r Name 4. ^ 70600000060X007.bin	✓ Č Search Date modified 1/18/2023 4:27 F	h bios	Type BIN File	> 2
Start firmware upda Open → ~ ↑ → This Organize ▼ New folder ubuntu ^ 工績報告 OneDrive - advant This PC 3D Objects Desktop Documents Documents Documents Documents	te s PC > Desktop > bios r Name 4. 70600000060X007.bin	✓ Č Date modified 1/18/2023 4:27 F	h bios	Type BIN File	> 2
Start firmware upda Open → → ↑ ↓ This Drganize ▼ New folder ubuntu 工績報告 OneDrive - advant This PC 3D Objects Documents Documents Music	s PC > Desktop > bios r Name 4. ^ 70600000060X007.bin	✓ Č Search Date modified 1/18/2023 4:27 F	h bios	Type BIN File	>
Start firmware upda Open → → ↑ ↓ This Organize → New folder ubuntu ↑ 工績報告 OneDrive - advant This PC Documents	r Name 4. 70600000060X007.bin	✓ Č Date modified 1/18/2023 4:27 F	h bios	Type BIN File	>
Start firmware upda Open → → ↑ ↓ This Drganize ▼ New folder ubuntu ⊥猿報告 OneDrive - advant This PC 3D Objects Documents Documents Documents Nusic Pictures Videos	s PC > Desktop > bios r Name 4. ^ 70600000060X007.bin	✓ Č ✓ Date modified 1/18/2023 4:27 F	h bios	Type BIN File	>
Start firmware upda Open → → ↑ ↓ → This Organize ▼ New folder ↓ ubuntu ↓ 工績報告 OneDrive - advant ↓ Tig This PC ↓ 3D Objects Documents ↓ Documents ↓ Downloads ↓ Music ➡ Pictures ➡ Videos ↓ Local Dick (Ct)	<pre>s PC > Desktop > bios r Name 4. TO600000060X007.bin </pre>	✓ O Searc Date modified 1/18/2023 4:27 F	h bios	Type BIN File	~
Start firmware upda Open → → ↑ → This Drganize ▼ New folder ubuntu ubuntu 工蹟報告 OneDrive - advant This PC 3D Objects Documents Documents Downloads Music Pictures Videos Local Dick (Cr) File na	<pre>s PC > Desktop > bios r Name 4. ^ T0600000060X007.bin </pre>	✓ O Searce Date modified 1/18/2023 4:27 F	h bios	Type BIN File	~

3. Press Start firmware update,

Note: Following are the Firmware update methods and components supported this page. • Dual BMC Firmware update. • BIOS Firmware update	
	s supported in
elect Firmware Image	

4. Press Proceed wait it done.

Proceed	
	Uploading 9%

5. BIOS update completed.

	Aptio Setup - AMI	
Hain Advanced Platform Con	figuration Socket Configuratio	n Server Mgmt Security Boot
BIOS Information		Set the Date. Use Tab to
BIOS Vendor	American Megatrends	switch between Date elements.
Core Version	5.0.2.3 0.12 x64	Default Ranges:
Compliancy	UEFI 2.8.0; PI 1.7	Year: 1998-9999
Project Version	7060000060x007	Months: 1-12
Build Date and Time	08/16/2021 10:11:48	Days: Dependent on month
Access Level	Administrator	Range of Years may vary.
2		
Memory Information		
Total Memory	16384 MB	
Memory Frequency	2133 MT/S	
		++: Select Screen
System Date	[Thu 09/16/2021]	11: Select Item
System Time	[07:19:18]	Enter: Select
		+/-: Change Opt.
		F1: General Help
		F2: Previous Values
		F3: Optimized Defaults
		F4: Save & Exit

Reference: