

eFolder Replibit BDR Pro Appliance IPMI Interface Quickstart Guide

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eFolder Replibit – IPMI Interface for the Pro BDR Appliance

The purpose of this guide is to provide you with a high-level overview of the most commonly used functions in the Intelligent Platform Management Interface (IPMI) for the *eFolder Replibit BDR Pro Appliance*.

The IPMI interface allows system administrators and other authorized users to access their system remotely, control the power of their system, redirect the console, utilize a remote graphics console display, monitor the system's health, and configure additional settings. The IPMI interface provides remote access to multiple users at different locations for ease in troubleshooting, diagnostics, networking, and other maintenance activities.

When ordering your appliance, you will specify your network information for this IPMI feature; therefore, it will arrive <u>preconfigured</u> with your IP address when it is shipped to you.

This *eFolder Replibit BDR IPMI Interface Quickstart Guide* will cover the following common tasks for the Pro Appliance:

- A. Access the IPMI Interface
- B. Log in to the IPMI Interface
- C. MANDATORY: Change the initial default password
- D. <u>Remote control the power state of your system</u>
- E. <u>Redirect the Console</u>
- F. Utilize the Remote (graphics) Console Display feature of the IPMI Interface
- G. Check the health of your server
- H. <u>Troubleshoot</u>
- I. Monitor your server using SNMP
- J. Change your network settings/IP Address
- K. Setting the IPMI Address from the System BIOS



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Customer Support

At eFolder, we want to help you quickly resolve your technical issues and value your input to build products that incorporate your suggestions!

If you need assistance with set-up or any other technical questions or issues, please contact our Technical Support team at <u>replibitsupport@efolder.net</u> or call:

678-888-0700, and select 2 for technical support, then 1 for backup services support, which includes eFolder Replibit.

For known problem resolutions, open a browser and navigate to:

Knowledgebase:

https://secure.efoldering.com/support/Knowledgebase/List/Index/69/bdr-for-replibit

A. Access the IPMI Interface for the eFolder Replibit BDR Pro Appliance

- 1. Ensure that the dedicated IPMI network port is plugged into your switch, and has connectivity.
- 2. Begin by opening a browser window.
- 3. Type the following in the address bar as shown below:

https:// <followed by the IP address that was assigned to the IPMI interface>.



Notes:

- The IPMI interface will operate with any Web Browser that supports Java.
- Please do *not* use the https address shown above in the example; this is for illustrative purposes only, and you will need to use your *unique* (preconfigured) IP address that you provided for your IPMI Interface.
- You *must* have Java *installed* and *enabled* for the IPMI interface to operate.

<))) Java	Java
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Additionally, you can refer to <u>Section K: Setting the IPMI Address from the System BIOS</u> in this Guide.

If you still do *not* know the IPMI address assigned to your BDR unit, please contact eFolder Technical Support at <u>replibitsupport@efolder.net</u> or call: **678-888-0700**; select 2 for Technical Support, and then 1 for Backup Services Support, which includes **eFolder Replibit**.

4. If your browser prompts you with the dialog box security certificate shown to the right, click *Continue to this webpage (not recommended).*





B. Login to the IPMI Interface for the eFolder Replibit BDR Pro Appliance

The IPMI Interface will come *preconfigured* with a default password of ADMIN / ADMIN that you will use initially to log in for the first time. However, it will be *imperative* to change this immediately, which you will learn how to do in this guide.

1. The *Login Window* appears after clicking *Continue to this webpage*.

SUPERMICR	
Username Password	Please Login

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- 2. In the *Username* field, enter **ADMIN**
- 3. In the *Password* field, enter **ADMIN**

Notes:

- Please use *al*/UPPERCASE letters for this initial login.
- <u>IMPORTANT!</u> As mentioned, this device comes preconfigured with an ADMIN Username and Password; it is *critical* that you change this default password to a unique one of your own *immediately after logging in for the first time with the default credentials* which you will do in the next section.
- 4. Select the **login** button.



P	lease Login	
Username	ADMIN	
Password	***	
	login	



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The IPMI Interface Main Menu appears.

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C. MANDATORY: Change the initial default password for the eFolder Replibit BDR Pro Appliance IPMI Interface

<u>Note:</u> Changing the default AMIN password is a MANDATORY step that must be done during your initial set-up process.

1. From the *IPMI Main Menu*, click the **Configuration** drop-down menu and select **Users**.

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From the *User List* screen:

- 2. Click on the User ID ADMIN/Administrator line item.
- 3. Click on the **Modify User** button (this will allow you to change the Administrator password to a unique password of your own from the next screen).

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The *Modify User* screen appears.

- 4. In the *Change Password* field, check the **Change Password** checkbox.
- 5. In the *Password* field, enter a unique password that you create (it is recommended to choose a strong password with Upper, Lower, and Numeric characters).
- 6. In the *Confirm Password* field, type in the password that you just created.
- 7. Click on the **Modify** button.

		Fost Identification Server: Replication/Mile Unar: ADMN	(162.168.001.024.) (Administrator.)	@ NormalQitet	nab@Logout; What's new (reg
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<u>Note:</u> As mentioned, changing the default ADMIN Username and Password to a unique set of credentials of your own is a *MANDATORY* step. Please ensure that this Step C described above is completed prior to proceeding to Step D.

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D. Remote control the power state of your system

After you modify your password, the *System* screen appears.

To control the power of your system remotely:

- 1. Click the **Remote Control** drop-down menu.
- 2. Select **Power Control**.

			Host Identifica	ation-						
UPERMICR			User:	ADMIN (A	dministrator)		8	Normal	ogout Wha	Ts new(Engli
etem S	rver Health	Configuration	Remote Control	Virtual Media	Maintenance	Miscellappour	Help			
stem Sr System FRU Reading Hardware Informati	river Health	Coefiguration Summary ware Revision : 03.26 ware Build Time : 12/18/201 S Version : 1.0c S Build Time : 01/04/2016 tish Version : 1.0.0 Remote Refres	Remote Control Console Redirectio Power Control Launch SOLL2 IP address II 5 BMC MAC add System LAN1 System LAN3 System LAN4 System LAN4 Console Preview h Preview Image	Virtual Media n 22.168.001.024 Intess: 0c:04.7are2.168 MAC address: 0c:04. MAC address: 0c:04 MAC address: 1ff ff ff	Маintenance	Miscellaneous	Help			
		Power Host Power On	Control via IPMI is currently on Power Down Reset							

The Power Control and Status screen appears.

From the *Power Control and Status* screen, you can perform several actions such as:

- Reset Server (hard reboot),
- Power Off Server Immediate,
- Power Off Server Orderly Shutdown ("gracefully" power off),
- Power On Server, and
- **Power Cycle Server** (Power Off then Power On server).
- 1. Click the radio button of your desired action such as **Reset Server**, **Power Off Server – Immediate**, and so forth.
- 2. Then click the **Perform Action** button.

PERMICRO		Host Identific Server: User:	ReplibitProIPMI (192. ADMIN (Ad	168.001.024) ministrator)		0	Normal <mark>@Refrest@Logout</mark>	What's o	Englis
stem Server	Health Configuration	Remote Control	Virtual Media	Maintenance	Miscellaneous	Help			
Remote Control	Power Control an	d Status							
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	O Power Off Server - Or	denty Shutdown							
	Power On Server								
	O Power Cycle Server								
	Perform Action								

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E. Redirect the Console

To redirect your console/graphics display:

- 1. Click on the **Console Redirection** menu option.
- 2. Click the Launch Console button.

192.168.1.24	192.16	8.1.24 ×	+								- (×
$\leftrightarrow \rightarrow \circ$	Certificate em	or 192.168.1.24/cgi/url	redirect.cgi?url_name=	mainmenu					□ ☆	=	26	â	••••
SUPERMICE			Host Identific Server: User:	cation- ReplibitProIPMI (192. ADMIN (Ad	168.001.024) ministrator)			Normal O Ref	resh@Logout ji	What's n	ew Engl	sh 🔻	3
System	Server Health	Configuration	Remote Control	Virtual Media	Maintenance	Miscellaneous	Help						1
Remote Control	€ C	onsole Redirectio	n										
Console Redire	ction	Press the button to launch	the redirection console and	d manage the server remo	oleity.								
D Launch SOL		aunch Console											
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After clicking the **Launch Console** button, a dialog box prompt appears at the bottom of the *Console Redirection* screen stating, *launch.jnlp finished downloading.*

At this prompt, click the **Open** button.

SUPERMICRO		Host Identification Server: ReplibitProIPMI (1 User: ADMIN (92 168.001.024) Administrator)		Son Normal	Logout What's new English
System Ser	ver Health Configuration Ren	mote Control Virtual Media	Maintenance	Miscellaneous	Help	
C Remote Control	Console Redirection					
Console Redirection	Press the button to launch the redi	rection console and manage the server r	emotely.			
Dewer Control						
Launch SOL	Launch Console					
	launch (5).jnlp finished download	ding.	19	pen Open fo	lder View downloads	$\langle \rangle$



After clicking the **Open** button, you may receive three dialog boxes shown below from the *Console Redirection* screen:

SUPERMICRO		Host Identification Server: ReplibitProIPMI (192 User: ADMIN (Ad	168.001.024) ministrator)	🎯 Norn	alQRefreshQLogout What's new(English V
System Server	Health Configuration Rem	ote Control Virtual Media	Maintenance	Miscellaneous Help	
Remote Control	Console Redirection				
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	launch (5).jnlp finished downloadi	ng.	Note:	Connection to this weeked is unrouted. Weekelike: https://32.388.1.24 The certificate is not valid and carved be used to ve Nore Exformation Do you want to run this app The certificate is not valid and carved be used to ve Nore Exformation Do you want to run this app The certificate is not valid and carved be used to ve Nore Exformation The certificate is not valid and carved be used to ve Nore Exformation The certificate is not valid and carved be used to ve Nore Exformation Nore Provided to run this application Nore Provided to very set of the set o	443 enfy the dentity of the website. Contrac Contrac Contrac Contrac Pleation? Market

Perform the following actions for each:

 If you receive a Java Updated Needed dialog box, you can click "Later" at your discretion. (Note: In order to run the IPMI interface you do need Java installed, however, you can choose to perform a Java update at a later time).

Yo	ar Java version is out of date.
	Update (recommended) Get the latest security update from java.com.
	 Block Block Java content from running in this browser session.
-	Continue and you will be reminded to update again later.



2. At the *Do you want to Continue?* dialog box, click the **Continue** button.



3. At the *Do you want to run this application?* dialog box, click the **Run** button.



F. Utilize the Remote (graphics) Console Display feature of the IPMI Interface

Now that you have redirected your Console, launched the Console button, and followed the dialog boxes to run Java viewer, the *Graphics Display* screen of your console appears.

SUPERMICRO		Host Identification Server: ReplibitProl User: ADMIN	PMI (192.168.001.024) (Administrator)		Some Contract Normal Refresh Logout What's new English
System Server	Health Configuration Rem	ote Control Virtual I	Media Maintenance	Miscellaneous Help	
Remote Control	Java iKVM Viewer v1.69.26 [192.168.1.2 Virtual Media Record Macro O	4) ReplibitProIPMI - Resolutio ptions User List Captu	en 1024 X 768 - FPS 29 Irre Power Control Exit		- D ×
Console Redirection	ttut start/running_ nencess	9598			
Power Control	Welcome to Repilbit Backup M The IP of this Server is:	anagen			
Launch SOL	Kelcome to Replibit Bickup M The IP of this Server is: 19 ubuntu login:	anager 2.160.1.51	k		



From this graphics display screen, you can perform several actions such as using a Virtual Keyboard.

To enable this feature:

- 1. Click on the Virtual Media drop-down menu.
- Select Virtual Keyboard. Note: Certain keys (like Function keys) can only be sent to the remote system using the Virtual Keyboard



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From the graphics display screen, you can also enable *Virtual Storage* as in a virtual CD ROM drive.

To enable this feature:

- 1. Click on the Virtual Media drop-down menu.
- 2. Select Virtual Storage.
- 3. From the *Virtual Storage* window, click on your desired drive.
 - For example, if you want to reinstall Replibit, select **ISO file** from the *Logical Drive Type* drop-down menu to plug in a virtual CD ROM drive, and then click the **OK** button.

UPERMICR	Server: ReplibitProiPMI (192.168.001.024) User: ADMIN (Administrator)	Some Strength Strengt
ystem Server Health Configuration Remo	te Control Virtual Media Maintenance	Miscellaneous Help
Remote Control Console Redirection Power Control Power Control Power Control Power Control Power Control Power Control Console Redirection Writeal Keyboard Ing, process a Ing, process	ReplibitProIPME - Resolution 1024 X 759 - FPS 30 bons Unar List Capture Power Control Exit 528 1320000 1320000 1320000000000	- X

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• From the Open window, choose your **replibit.iso** and click on the **Open** button.



- Then select the **Plug In** button which will plug in your virtual CD ROM drive.
- When you reboot your machine, you can choose to boot off the virtual CD ROM drive to reinstall Replibit from the .iso file.

Device1 Device2	Device3	K	
Settings for Device1		Image Cle Name and Coll Dath	
ISO File	-	E verden trate de Manie	Open Image
			1
Defeash		Diversity Charles	
Refresh		Plug Out	OK
Refresh		Connection Status History	ОК
Refresh		Connection Status History	OK

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Other common functions from the virtual console graphics display include:

• Power Control: by selecting the Power Control drop-down menu, you can Set Power On, Set Power Off, Software Shutdown, and Set Power Reset.





• Additionally, you can utilize Macro options from the virtual console, such as Ctrl+Alt+Del (for example, select Macro, Macro, and then Crtl+Alt+Del from the drop-down menu).



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G. Check the health of your server

To check the health of your server remotely:

- 1. From the *System* menu, click on **Server Health**.
- 2. Then click on Sensor Readings.







The Sensor Readings screen appears.

This screen will show you in green or in red, the state of each of the sensors. For example, these may include the CPU Temperature, the RAM temperature, the Fan Speed (if the fans are healthy), and the Voltage indicator.

The *Sensor Readings* feature of the IPMI is helpful to troubleshoot and diagnose if your system is *not* functioning properly.





H. Troubleshoot

An additional troubleshooting feature is to check the **Event Log** for any unusual events or errors. Scroll through all of the events, and read each corresponding description for any issues.

UPERMICRO			Server: User:	ReplibitProIPMI (192.1 ADMIN (Adm	68.001.024) ninistrator)		() No	ormal <mark>@Refresh@Logout</mark> j % What's_new(Englis
stem	Server Health	Configuration	Remote Control	Virtual Media	Maintenance	Miscellaneous	Help		
D Server Hea	m 💿	Event Log							
Sensor Rea	adings	200000000000000000000000000000000000000							
Event Log		For more special event	log settings, please click her						
		Below is a table of th filter the events, and	e events from the system's eve also sort them by clicking on a	nt log. You can choose a ca column header	tegory from the pull-d	own bax to			
		Select an event log cate	gory:					Event Log: Max- 512, Used- 130 (ever	nt ent
		Event ID :	Time Stamp	Sensor Name :		Sensor Type :	Description :		
		1 ;	2016/02/29 14 50:07	CPU Temp		Processor	Thermal Trip - A	ssertion	_
		2	2016/03/08 00 12:18	BIOS POST Progress	#0×00	BIOS POST Progress	Error-Unrecover	rable video controller failure Assertion	
		3	2016/03/08 00:16:48	BIOS POST Progress	#0×00	BIOS POST Progress	Error-Unrecover	able video controller failure Assertion	
		4 :	2016/03/08 00:20:29	BIOS POST Progress	00x00	BIOS POST Progress	Error-Unrecover	rable video controller failure Assertion	
		5 3	2016/03/08 00:22:29	BIOS POST Progress	#0×00	BIOS POST Progress	Error-Unrecover	able video controller failure Assertion	
		6	2016/03/27 01:10:22	FAN1		Fan	Lower Critical -	Going Low - Assertion	
		7 3	2016/03/27 01:10:22	FAN1		Fan	Lower Non-Rec	overable - Going Low - Assertion	
		8 3	2016/03/27 01 10:26	FAN1		Fan	Lower Non-Rec	overable - Going Low - De-assertion	
		9 3	2016/03/27 01:10:26	FAN1		Fan	Lower Critical -	Going Low - De-assertion	
		10	2016/03/27 01:10:33	FAN1		Fan	Lower Critical -	Going Low - Assertion	
		Clear Event Log S	ave ;						

I. Monitor your server using SNMP

To monitor your server using the SNMP monitoring protocol, perform the following steps to enable this function:

- 1. From the *Sensor Reading* menu, click on the **Configuration** drop-down menu.
- 2. Select SNMP.

A		0					10.00	11		
tem Serv	rer Health	Configuration	Remote Control	Virtual Media	Maintenance	Miscellaneous	Help			
Server Health	Sen	Date and Time LDAP								
Sensor Readings		Active Directory RADIUS	and information includ	ino readinos and status \	(ou can boole viewing the					
Event Log	8	Mouse Mode Network	pressing the Show Thre	sholds button below.	an an agge and a					
	Select	Dynamic DNS SMTP							Sensor Readings: 21	senso
	All Se	SSL Certification							sensor neutings. 21	
		Users			Status :		Read	ling :		
		IP Access Control			Normal		56 0	legrees C		
		SNMP			Normal		44 c	legrees C		
		FanWlode			Normal		52 0	legrees C		
		Web Session			Normal		59 0	legrees C		
		Syslog			Normal		43 4	legrees C		
		DIMMA2 Tem	p		Normal		45 0	legrees C		
	_	DIMMBT Tem	P		Normal		40 0	legrees C		
		EAN1	p Normal			46 degrees C				
		EAND			Normal		420	D D D M		
	Refra	sh Show Threshold	s Save							
	Refra	sh Show Threshold	s Save							
	Refra	sh Show Threshold	s Save							



The SNMP screen appears.

3. To enable SNMP monitoring, select the **Enable SNMP** radio button.

UPERMICR			Server: User:	ADMIN (A	. 168.001.024) dministrator)			Normal	Refresh@Logout	What's new Eng	jlish
ystem S	Server Health Co	nfiguration	Remote Control	Virtual Media	Maintenance	Miscellaneous	Help				
Configuration	SNMP :	Settings									
Alerts											
Date and Time	Check t the Sav	e button to save	set SNMP Setting and enter your changes.	the required information	to enable the SNMP. Plea	se press					
DLDAP											
Active Directory	O Enabl	e SNMP									
D RADIUS	SNMP Ver	sion 🖲 SN	MPV2 💿 SNMPV3								
Mouse Mode	SNMPV2										
D Network	ROComm	nunity: ++++	••								
Dynamic DNS	RWCom	nunity: ****									
SMTP	SNMPV3	-									
SSL Certification	User Nan Auth Proto	cot ON	D5 🔍 SHA1								
D Users	Private Pro	tocol: 💿 D	es 🔍 aes								
D Port	Auth Key Private K										
D IP Access Control											
SNMP	Save										
Fan Mode											
Web Session											
Syslog											

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J. Change your network settings/IP Address

As mentioned earlier in this guide, your IP Address should be shipped to you *preconfigured* based on your order.

If you need to change the IP Address at a later date (which is typically *not* needed), perform the following steps:

- 1. From the *Network* menu, select the **Configuration** drop-down menu.
- 2. Select Network.

UPERMICE		Host Identification Server: RepbellivolPMI (192.168.001.024.) User: ADMIN (Administrator.)		Ø NormalØRefrestØLogost j	What's new(inglish
ystem Server Health	Configuration	Remote Control Virtual Media Maintenance Miscellan	neous Help			
C Configuration C Configuration C Alerts D Date and Time C LDAP C Active Directory C RADRUS RADRUS RADRUS C Mouse Mode R Hetwork C Dynamic DNS S Statip S Statip S Statip S Statip S Static Certification C Users S Statip	Vector Vectors Vecto	Interview Interview <t< th=""><th></th><th></th><th></th><th></th></t<>				



The Network Settings screen appears.

3. From the *Use the following IP address* radio button, you can modify your IP Address in the *IPV4Settings* section.

Configuration	Network Settings
Alerts	Ver use view and modify the antimative efficience in this same findeal whether to address an its address under still address to be address and an attraction.
Date and Time	rou can vew and mount the resource, second on this page, select innerite to ocean an in- address automatically or manually configure one.
LDAP	
Active Directory	MAC Address 0c-c4-7a-c2-16-b9
RADIUS	Hostname ReplibitProIPMI
Mouse Mode	Use the following IP address
Network	IPv4 Setting
Dynamic DNS	P Address 192.168.001.024 ×
SMTP	Gateway 192.168.001.001
SSL Certification	DNS Server IP 0.0.0.0
Users	
Port	IPv6 Setting
IP Access Control	Add ID Databal Add ID Databal Add Construction
SNMP	OHCPv6 Stateless OHCPv6 Stateles
Fan Mode	Address List
Web Session	DNS Server IP
Syslog	DUID 0E 00 00 01 00 01 1F 0E
	VLAN O enable ® disable VLAN ID 0 LAN Interface Failover V
	RMCP Port 623
	Network Link Status
	Active Interface Dedicated

<u>Note:</u> Alternatively, you can configure IPMI Network settings from the **System BIOS**. For these steps, please proceed to the next Section, *"K. Setting the IPMI Address from the system BIOS."*

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K. Setting the IPMI Address from the System BIOS

- 1. Power on the server.
- 2. Press when prompted to enter, *Setup.*



3. Using the left and right cursor keys, navigate to the top menu to *highlight the IPMI Tab.*



Aptio Setup Utility Main Advanced Event Logs IRM	y – Copyright (C) 2016 An Security Boot Save	merican Megatrends, Inc. 8 Exit
BMC Firmware Revision IPMI STATUS System Event Log BMC Network Contauration	3.26 Working	Configure BMC network parameters
		++: Select Screen 11: Select Item Enter: Select +/-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit

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4. Using the up and down cursor keys, *highlight BMC Network Configuration.*



5. Press Enter to select the Network Configuration page.

BMC Firmware Revision IPMI STATUS	3.26 Working	Configure BMC network parameters
System Event Log BMC Network Configuration		
1		
/		
		++: Select Screen
		11: Select Item Enter: Select
		+/-: Change Opt.
		F1: General Help F2: Previous Values
		F3: Optimized Defaults
		F4: Save & Exit

- 6. Also using the up and down cursor keys, highlight Update LAN Configuration.
- 7. Press the *Space* bar to toggle the setting to *[YES]*.
- 8. Use the Cursor keys to highlight *Configuration Address Source.*
- 9. Press the Space bar to toggle between [DHCP] and [STATIC].
- 10. If you wish to set a static IP address:
 - change Configuration Address Source to [Static],
 - Set the Station IP address, Subnet Mask (and (Optionally) Gateway IP Address fields).
 - Use the cursor keys to navigate the fields and **enter the IP address information** using the numeric keyboard.
- 11. Press <F10> to save the configuration changes and exit the BIOS setup when finished.

IPHI	American Megatrends, Inc.
BMC Network Configuration IPMI LAN Selection IPMI Network Link Status: Undate IPMI LAN Configuration Configuration Address Source Station IP Address Subnet Mask Station MAC address Gateway IP Address Gateway IP Address	BIOS will set below setting to IPMI in next BOOT **: Select Screen 11: Select Item Enter: Select */-: Change Opt. F1: General Help F2: Previous Values F3: Optimized Defaults F4: Save & Exit ESC: Exit



For information on more detailed topics *not* covered in this *eFolder Replibit BDR IPMI Interface Quickstart Guide for the Pro Appliance*, please access the manufacturer's User's Guide (Revision 2.3b) using the following link:

http://supermicro.com/manuals/other/SMT_IPMI_Manual.pdf

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