MESR9xx series, VESR9xx series FIELD UPGRADE PROCEDURE

v1.2



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FIELD UPGRADE PROCEDURE FOR MESR9XX SERIES & VESR9XX SERIES

Follow these steps:

1.Download Vlinx Manager:

- 1. Go to the "Support" tab on the Advantech website. https://support.advantech-bb.com/
- 2. Enter your product model number in the Keywords box.
- 3. Choose Software Utility from Material Type.
- 4. Click Search.
- 5. Select and download the Vlinx Manager Software file to a temporary location.
- 6. Install the Vlinx Manager (if necessary).
 - a. Remove the previous version of Vlinx Manager via the **Add or Remove Programs** option from the Control Panel (i.e. Start -> Settings -> Control Panel).
 - b. Run installer to install the new Vlinx Manager version.
- 2. Download the latest Firmware files:
 - 1. Go to the "Support" tab on the Advantech website. https://support.advantech-bb.com/
 - 2. Enter your product model number in the Keywords box.
 - 3. Choose Firmware from Material Type.
 - 4. Click Search.
 - 5. Select and download the file to your local firmware folder.
- 3. Install the new Firmware:
 - 1. Now you are ready to install the *new firmware* using the Vlinx Manager.
 - 2. Set up the device as pictured below. Launch the Vlinx Manager.



NOTE: To upgrade to the new firmware, you can use either a <u>Serial or an Ethernet</u> connection. Also, note that the firmware upgrade process via VCOM connection is not supported. If you are using a model xESR9x2, both the ports need to be in a NON-VCOM mode.

4. NOTE: If you are using a <u>Serial</u> connection, please go to Step #5.

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If you are using an <u>*Ethernet*</u> connection, select **Network** option in the Vlinx Manager. Click "Connect" to locate the device.

🎟 Vlinx Manager 1.0.0	
Ethernet Serial Serv	Ver
Connection How do you want to connect to the device? Network C Serial Port Network Options I don't know the IP address of the device. The device is at this IP address:	Progress:
	Connect Exit

5. NOTE: If you are using an *Ethernet* connection and performed Step#4, go to Step#6.

If you are using a <u>Serial</u> connection, select **Serial Port** option in the Vlinx Manager and follow these steps:

- a. Press and hold the Reset button on the device for more than 2 seconds to put the device in Console Mode which will be indicated by:
 - i. (xESR9x1) Serial LED #1 Off and Ready LED On (solid).
 - ii. (xESR9x2) Serial LED #1 Off, serial LED #2 On (solid) and Ready LED Off.
- b. Release the Reset button.
- c. Ready LED will blink (5 times/sec.) for ~5 seconds and the device will reboot.
- d. When the device powers up, it will be in Console Mode which is indicated by:
 - i. (xESR9x1) Serial LED #1 solid and Ready LED Off.
 - ii. (xESR9x2) Serial LED #1 solid, Serial LED #2 Off and Ready LED Off.
- e. Please verify that your serial port settings on the PC are as follows:

9600-8-N-1, no flow control.

f. Click **Connect** on the Vlinx Manager to locate the device.

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Vlinx Manager 1.0.0	
Ethernet Serial Serv	Ver
Connection How do you want to connect to the device? Network Serial Port Serial Port Options Search all serial ports for the device. The device is connect to this serial port:	Progress:
	Connect Exit

6. After your device is located, the Vlinx Manager window will pop up. Double-click on the light-blue line that has your device listed to make sure you are talking to your device.

NOTE: There may be a case where more than one device comes up on the search.

Vlinx Manager 1.0.0		_
😋 🛄 🔎 👘	a Add Barrous Diamonstin	
hich device do vou want to configure?	Choose the device by double-clicking on one of the devices	in the list below.
erver Name Connection		Port 1
SR901-000 192.168.0.105 V(COM=COM1	
	VESR90	11-000BEBFF01F0 (192.168.0.105)
Ethernet S	Serial Server	
Contents	Login	Help
Login	Paceword	Enter the password to login
	rassword	to the device, then click on
	Login	the Login button.
and the second s	1	l l'annu l'a

7. Click on the Upgrade GUI.

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📟 Vlinx Manager 1.0.0			- U ×
Open Save Search U	Ipgrade Add Remove Diag	φ) prostic	
Which device do you want to confi	gure? Choose the device by double-c	slicking on one of the devices in the list below.	
Server Name Connection		Port 1	
VESR901-000 192.168.0.10	05 VCOM=COM1		
			•
			-
		VESR901-000BEBFF01F0 (192.168.0.105)	
		RI CONTRACTOR OF THE REAL OF T	
Ethern	at Carial Canvar		
Ethem	el sendi server		
Contents	Login	Help	
Login		Enter the password to login	
	Password:	to the device, then click on	
		the Login button	
	Login	are zogar catton.	
			•
	· ·		

- 7. Upgrade dialog box will pop up.
- NOTE: From the second pull-down menu, make sure the firmware you downloaded from the Advantech website is not already listed. If it is already listed, go to Step #11.

Click on the **Browse** GUI.

📟 Vlinx Manager 1.0.0	×
I want to change the firmware of this serial server:	
VESR901-000EBEFF01F0	-
from firmware version 1.0.0 to the firmware contained in:	
	•
vesr90x_v1.0.0.sfb	
vesr90x_v1.0.1.stb	
Progress:	

9. Browse to the location of your temporary folder where you have saved the new firmware files (*.sfb and *.sfi). Click **OK**.

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Browse For Folder	? ×
Sustem Volume Information	
E S DVD-RAM Drive (D:)	
🗄 🥗 Removable Disk (E:)	
🛨 🖙 Removable Disk (F:)	
🕀 🍽 Removable Disk (G:)	
🕀 🐨 Removable Disk (H:)	
🗉 🔛 🥝 DVD Drive (I:)	
🗊 🕀 DVD Drive (1-)	<u> </u>
	. 1
OK Can	icel
	//

10. Upgrade dialog box will display that a new firmware has been found.

I want to change the himware of this serial server:	
VESR901-000BEBFF01F0	-
from firmware version 1.0.0 to the firmware contained in:	
	_
The selected firmware file contains:	
Progress. 1 new firmware files found. Copying vesr90x_v0.0.126.sfb. Done. The firmware files are ready for upgrade. Choose firmware a upgrade.	and press

11. Verify that your device is selected from the first pull-down menu.

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📟 Vlinx Manager 1.0.0 🔹 🔊
want to change the filmware of this serial server.
VESR901-000BEBFF01F0
from firmware version 1.0.0 to the firmware contained in:
· · · · · · · · · · · · · · · · · · ·
The selected firmware file contains:
Progress:
1 new firmware files found. Copying vest90x_v0.0.126.sfb. Done. The firmware files are ready for upgrade. Choose firmware and press upgrade.
Internet Browse Upgrade Close

12. Select the newly added firmware from the second pull-down menu and click Upgrade.

Vlinx Manager 1.0.0	×
I want to change the firmware of this serial server:	
VESR901-000BEBFF01F0	•
from firmware version 1.0.0 to the firmware contained in:	_
vesr90x_v1.0.0.sfb	•
The selected filmware file contains.	_
1.0.0 2008-12-15 Initial release.	
Progress:	
Internet Browse Upgrade Close	,

13. You will see that the progress bar is increasing indicating that the firmware is being transferred from your PC to the device.

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📟 Vlinx Man	ager 1.0.0			×
I want to chan	ge the firmware o	of this se	rial server:	
VESR901-000	BEBFF01F0			7
from firmware v	ersion 1.0.0 to I	the firmw	are contained	f in:
vesr90x_v1.0.	0.sfb			7
The selected fir	mware file conta	iins:		
2008-12-15 Initial release.				
Progress:				
Sending 161 p Sending 162 p Sending 163 p Sending 164 p Sending 165 p Sending 166 p Sending 167 p	ackage from 69 ackage from 69 ackage from 69 ackage from 69 ackage from 69 ackage from 69 ackage from 69	5 5 5 5 5 5 5 5		× •
Internet	Browse		Upgrade	Close

14. Once the firmware upgrade process is done, you will see the following message. You can close the Upgrade dialog box by clicking **Close**.

Thinx Manager 1.0.0	×
I want to change the firmware of this serial server:	
VESR901-000BEBFF01F0	•
from firmware version 1.0.0 to the firmware contained in:	
	-
The selected firmware file contains:	
1.0.0 2008-12-15 Initial release.	
Progress:	
Sending 692 package from 695 Sending 693 package from 695 Sending 694 package from 695 Sending 695 package from 695	-
Firmware vesr90x_v1.0.0.sfb upgrade finished.	.
Internet Browse Upgrade Close	,

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15. At this point, you will see that the Ready LED on the device has turned solid which is an indication that the firmware is being written to the device's flash memory. If the power is lost to the device during this process, the device will go back to the recovery firmware (i.e. V0.0.99) and you must repeat the above steps to upgrade to the new firmware.

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- 16. Once the device has finished writing the firmware to its flash memory, the Ready LED will start blinking (5 times/sec) for 5 seconds and then the device will reboot.
- 17. After the device powers up, verify that the Ready LED is blinking once per second indicating normal operational mode.
- 18. From the Vlinx Manager, reconnect to your device and select your device from the list. Verify that your device has the new firmware by looking at the firmware revision number in the Vlinx Manager.
- NOTE: This number should be identical to the number listed in *.sfi file that you downloaded from Advantech website.

🃟 Vlinx Mana	ger 1.0.0											- 🗆 🗵
😋 📮 Open Sa	ye Search	15 Upgrade	Add	× Remove	(ஷ) Diagnostic							
Which device of	lo you want to co	nfigure? Cho	oose the de	vice by dou	uble-clicking o	on one of the	e devices in t	he list below	ι.			
Server Name	Connection							Port 1			 	
VESR901-00) 192.168.0	105 VCO	M=COM1									
				3						T		
			-									
					FORMA							
				Model: V.	ESR901							
				firmware	Version: 1	.0.0						
			1	Hardware	e Version: ()						
			1	MAC Ad	dress: 00:0	B:EB:FF:	01:F0					
				Link Stati	1s: 100Bas	eTX full d	luplex					
			Copyright	© 2007-20	08 B&B Electi	ronics Manu	facturing Com	npany, Inc. A	lll rights rese	erved.		
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