

Access Easy Master Controller 4.1

ISO Image



Table of contents

1	Copyright, safety and warranty	4
2	Installation preparation overview	5
2.1	Minimum hardware requirements to install AEMC	5
2.2	Preparation of AEMC ISO image	6
3	Creating bootable installation USB flash drive	7
4	Burning AEMC ISO image to DVD	11
5	Installing the AEMC software	15

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2

Installation preparation overview

This document shows you how to prepare for the installation of Access Easy Master Controller (AEMC) software. You need to prepare the computer where you wish to install the AEMC software, and also a bootable media containing the AEMC ISO image.

Warning!

Installing the AEMC software will **erase all existing data, programs, and operating systems** on the computer. This process is irreversible. Back up all important documents and files somewhere other than the computer hard drive before attempting any kind of installation.

2.1

Minimum hardware requirements to install AEMC

To install the AEMC software, the minimum hardware requirements of the computer is as follows:

Processor	Intel i5 and above
Memory	Minimum 8 GB RAM
Storage Space	Minimum 500 GB hard disk space
Ethernet	100 Mbit/s Ethernet card

2.2 Preparation of AEMC ISO image

To prepare a bootable media containing the AEMC ISO image, you need to firstly download the zipped file of AEMC ISO image from the Access Easy Controller 2.1 / AEMC section of our corporate website's product catalog (https://www.boschsecurity.com). Unzip the file and save the AEMC ISO image on your computer.

Next, create the bootable installation media with the AEMC ISO image. The AEMC software will be installed automatically to the computer when it boots from the bootable installation media.

There are two methods to prepare the installation media:

- creating a bootable USB flash drive with the AEMC ISO image (recommended method)
- burning the AEMC ISO image to DVD

The minimum storage size is 2 GB for the USB flash drive and 4.7 GB for the DVD disc. Any freeware (and its derivatives) or commercial software may be used to create the bootable installation media. We will be using the following software as examples in this document.

Software	License	Purpose
Rufus 3.4	Freeware	Creating bootable USB flash drive with an ISO image
Nero 9	Commercial	Burning ISO image to DVD

Tab. 2.1: Examples of installation media creation software



Notice!

The end user will be responsible of the legality and functionality of the software being used for the purpose stated. BOSCH SECURITY SYSTEMS assume no responsibility for any errors due to incorrect usage of the third party software. 3

Creating bootable installation USB flash drive

We will be using Rufus 3.4, a utility freeware that helps format and create bootable USB drives, as our example.

To create a bootable installation USB flash drive with the AEMC ISO image:

- 1. Download **Rufus** from its website: https://rufus.ie/ (no installation is required).
- 2. Insert an empty flash drive to a USB port on your computer.
- 3. Run the **Rufus** executable file.
- 4. Click the **SELECT** button to select the ISO image file.

		-		×
Drive Properties —				
Device				
AEMC (G:) [8 GB]				~
Boot selection			-	_
Disk or ISO image (Please select)	~	\odot	SELE	CT
Partition scheme	Target s	ystem		
MBR	BIOS (d	r UEFI-	CSM)	
Volume label				
Volume label AEMC File system	Cluster	size		
Volume label AEMC File system FAT32 (Default)	Cluster s	s ize ytes (De	efault)	~
Volume label AEMC File system FAT32 (Default) Show advanced format options Status	Cluster : 4096 by	si ze ytes (De	efault)	~
Volume label AEMC File system FAT32 (Default) Show advanced format options Status READ	Cluster s 4096 by	si ze rtes (De	efault)	~
Volume label AEMC File system FAT32 (Default) Show advanced format options Status READ	Cluster : 4096 by YY STA	size rtes (De	efault)	ISE

 \rightarrow The file selection dialog appears.

- Ø Open × v じ Search AEMC4.1 Release Q 100 T 0 Organize • New folder ~ Name Date modified This PC Desktop AEMC4_1.iso 12/13/2018 6:12 PM Documents Bownloads Music Pictures Videos Windows (C:) HP_RECOVERY (D:) DATADRIVEO (E:) HP_TOOLS (F:) AEMC (G:) < File name: AEMC4_1.iso ISO Image (*.iso;*.img;*.vhd;*.gz v Open Cancel
- 5. Navigate to the ISO image file, and click the **Open** button.

- \rightarrow The **START** button on the Rufus software is enabled.
- 6. Click the **START** button to initiate the burning process.

🖉 Rufus 3.4.1430	—		\times
Drive Properties —			
Device			
AEMC (G:) [8 GB]			~
Boot selection			
AEMC4_1.iso	~ 🥥	SELE	СТ
Partition scheme	Target system		
MBR ~	BIOS (or UEFI-	CSM)	~ ?
AEMC41 File system	Cluster size		
AEMC41			
File system FAT32 (Default)	4096 bytes (D	efault)	~
 Show advanced format option Status 	ns		
REA	ADY		
§ (i) ≇ 🖩	START	CLOS	SE
Using image: AEMC4_1.iso			

 \rightarrow The software detects the ISO image and may make recommendations to download some latest supporting files.



 \rightarrow The software makes some recommendations of the image writing mode based on the ISO image.

8. Click the **OK** button to accept the recommended image writing mode.

ISOHybrid image detected

Rufus re the driv	ecommends using ISO Image mode, so that you always have full access to be after writing it.
Howev again i	er, if you encounter issues during boot, you can try writing this image n DD Image mode.
Please	select the mode that you want to use to write this image:
Writ	e in ISO Image mode (Recommended)
O Writ	e in DD Image mode

 \rightarrow A dialog box warning about destroying the data on the USB flash drive appears.

9. Click the **OK** button to start burning the ISO image.



 \rightarrow The **Status** bar shows the progress until it is in the **READY** status.

10. Click the **Close** button to exit the **Rufus** software.

Drive Properties -	
Device	
AEMC41 (G:) [8 GB]	Ŷ
Boot selection	
AEMC4_1.iso	✓ Ø SELECT
Partition scheme	Target system
MBR ~	BIOS (or UEFI-CSM) ~
AEMC41	
AEMC41	Cluster size
AEMC41 File system FAT32 (Default)	Cluster size 4096 bytes (Default) ~
AEMC41 File system FAT32 (Default) ~ Show advanced format opti Status	Cluster size 4096 bytes (Default) ~
AEMC41 File system FAT32 (Default) ~ Show advanced format opti Status R () () () () ()	Cluster size 4096 bytes (Default) ~ ions IEADY START CLOSE

4

Burning AEMC ISO image to DVD

We will be using Nero 9, a commercial optical disc authoring program for burning and copying optical discs, as our example.

To burn the AEMC ISO image to DVD:

- 1. Run the **Nero Express** executable file.
- 2. Select the item Image, Project, Copy from the left pane.





3. Select the item **Disc Image or Saved Project** from the right pane.

4. Navigate to the ISO image file, and click the **Open** button.

Organize 👻 New folder				III • 🔲	
🖈 Quick access	^	Name	^	Date modified	ł
Downloads	1	AEMC4_1.iso		12/13/2018 6:	12 PN
C Desktop	*				
Documents	1				
E Pictures	#				
AEMC Cards					
AEMC Error msg					
AEMC ISO to USB					
AEMC System Database					
CneDrive					
💻 This PC		<			
This PC	Ý				

 \rightarrow The settings are shown in the **Final Burn Settings** dialog window.

5. Ensure that the DVD drive of your computer is selected as the **Current recorder** in the **Final Burn Settings** dialog window.

al Burn Settings		
ck 'Burn' to start the record	ing process.	
Current recorder:	🖴 G: ThinkPad Ultrasim DVD	V Options
Current recorder: Disc type:	G: ThinkPad Ultrasim DVD	V Options
Current recorder: Disc type: Image file:	G: ThinkPad Ultraslim DVD Image Recorder G: ThinkPad Ultraslim DVD	V Options

6. Click the **Burn** button to start burning the ISO image.

Nero Express		- 0
nal Burn Settings		
ick 'Burn' to start the record	ing process.	
Correct researders		0.50
Disc base	G: Innovad Otrasim DVD	Coptions
Disc type:	Image Recorder	
Tale (CD TEVT):		
HOB (CD TEXT):		
Artist (CD TEXT):		
Number of copies:	1 4	
	Verify data on disc after burning	

 \rightarrow The progress of the burning process is shown progressively in the dialog window.

7. Once the burning process has completed, the confirmation dialog box appears. Click the **OK** button to close the dialog box and exit the **Nero Express** software.

Installing the AEMC software

Once the bootable installation media is ready, follow the instructions below to install the AEMC software to the target installation computer.



Warning!

Installing the AEMC software will **erase all existing data, programs, and operating systems** on the computer. This process is irreversible. Back up all important documents and files somewhere other than the computer hard drive before attempting any kind of installation.

- 1. Configure the BIOS of the AEMC computer to boot from the USB flash drive or DVD drive.
- 2. Insert the USB flash drive to the USB slot, or the DVD to the DVD drive.
- 3. Restart the AEMC computer. It will boot from the USB flash drive or DVD drive and you will see the initial AEMC installation screen.

******* AEMC Version 4.1.0.0 ******* ******* ******* ******* ******* WARNING1 ******* ******* DVD or concel operation, eject ******* ******* DVD drive and shutdown your computer! ******* ******* To Program & Verify Press (P) *******	жжняя	Robert Bosch Security Solutions	нжжжжн
******* ******* ******* WARNING! ******* ******* WARNING! ******* ******* This program crases and replaces existing ******* ******* OS on HDD! To cancel operation, eject ******* ******* BVD drive and shutdown your computer! ******* ******* To Program & Verify Press (P) *******	5: 36 H 3636	AEMC Version 4.1.0.0	*****
WARNING WARNING WARNING WARNAWARNAWARNAWARNAWARNAWARNAWARNAWARN	*****		******
WARNING! ****** ****** This program crases and replaces existing ****** ****** This program crases and replaces existing ****** ****** OS on HDD! To cancel operation, eject ****** ****** and remove the installation media from ****** ****** DVD drive and shutdown your computer! ******* ******* To Program & Verify Press (P) *******	*******	****	*****
****** This program crases and replaces existing ****** ****** OS on HDD! To cancel operation, eject ****** ******* OS on HDD! To cancel operation, eject ****** ******* and remove the installation media from ****** ******* DVD drive and shutdown your computer! ******* ******* DVD drive and shutdown your computer! ******* *****************************	*****	VARN ING †	******
****** This program crases and replaces existing ****** This program crases and replaces existing ****** OS on HDD! To cancel operation, eject ******* and remove the installation media from ******* DVD drive and shutdown your computer! ******* ******* To Program & Verify Press (P) ******		*****	****
******** OS on HDD? To cancel operation, eject ******* ******* and remove the installation media from ******* ******* DVD drive and shutdown your computer! ******* ******* To Program & Verify Press (P) *******	жинин жи	This program crases and replaces existing	някини
and remove the installation media from ******* ******* DUD drive and shutdown your computer! ******* ******* ******** To Program & Verify Press (P) *******	3C 3636 H 363C	OS on HDD! To cancel operation, eject	******
NUD drive and shutdown your computer! ******** ******* ******* ******* Io Program & Verify Press (P)	*****	and remove the installation media from	******
To Program & Verify Press (P)	*****	DVD drive and shutdown your computer!	******
***** To Program & Verify Press (P) ******	NC 302 80 80 305 305		*****
	******	Io Program & Verify Press (P)	нжжжн

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4. Press the P key, followed by the Enter key to start the installation. The installation starts writing to the hard disk, and also checks the integrity.

```
The partition table has been altered.
Calling ioctl() to re-read partition table.
Syncing disks.
keZfs 1.44.4 (18-Aug-2018)
Discarding device blocks: done
creating filesystem with 1572608 4k blocks and 393216 inodes
Filesustem UUID: 4924a4c4-3042-49df-81d1-4adf36a06f24
Superblock backups stored on blocks:
       32768, 98304, 163840, 229376, 294912, 819200, 884736
Allocating group tables: done
Writing inode tables: done
creating journal (16384 blocks): done
Writing superblocks and filesystem accounting information: done
tune2fs 1.44.4 (18-Aug-2018)
Setting maximal mount count to -1
Setting interval between checks to 0 seconds
mount: mounting /dev/1 on /media/cdrom failed: No such file or directory
Root File system writing to /dev/sda1
It will take few minutes. Please wait ...
Verifying the Checksum ...
```

- 5. If there are issues, a red "FAILED" screen will appear. Example of issues include integrity problems with the hard disk, and corrupted ISO image while creating the bootable media. Check and rectify these issues before restarting the installation process again.
- 6. If there are no issues, a green "PASSED" screen will appear. Remove the USB flash drive/ DVD from the USB/DVD drive, and press the Enter key.

	Call Write La										
nstalling Boo	ot Loa	der		/ned	ia/c	f /a	ev/s	da	S		2 ·
usr/sbin/gru	b-prob	e: e	rror	: 1a	ilea	to	get	cano	nical pa	th o	f rootis .
istalling for	r 1300	-pc	plat	TOPA	*	-					
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nstalling li one	lo Boo	t Lo	ader	Â	/ne	dia/	cf /	dev/	sda EEEEEE	DDD	D
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nstalling li one	PPP PP PP PP PP PP PPP PPP	t Lo P PP PP PP P	Ader AA AA AA AA AA AA	A AA AA AA AAA AAA	Zne SS SS SS SS SS	dia/ SS SS SS SS SS	ss ss ss ss ss ss	dev/ SS SS SS SS SS	sda EEEEEE EE EEEEEE EEEEEE EE	DDD DD DD DD DD DD DD DD	D D DD DD DD DD
nstalling li one	PPP PP PP PP PP PP PP PP PP	t Lo P PP PP PP P	Ader AA AA AA AA AA AA AA	A AA AA AA AA AA AA	Zne SS SS SS SS SS SS	dia/ SS SS SS SS SS SS SS	cf / SS SS SS SS SS SS	ss ss ss ss ss ss ss ss	sda EEEEEE EE EEEEEE EEEEEE EE EE	DDD DD DD DD DD DD DD DD DD	D D DD DD DD DD DD

- 7. Restart the AEMC computer, and the AEMC system will load.
- 8. Using another computer in the same network, configure the connecting computer with the following IP settings:
 IP Address: 129.2.0.40
 Subnet Mask: 255.255.0.0
- Open the Microsoft Internet Explorer. Enter "https://129.2.0.42/" (default AEMC IP address) in the address bar, and press the Enter key.

- 10. Log in to the AEMC system with the default user "iuser1" and password "8088".
- 11. Please refer to *Chapter 17.1.3 Changing the IP address of Access Easy Master* of the AEMC Software Manual to change the IP address of the AEMC to your own.
- 12. Restart the AEMC computer for the new IP address to take effect.
- 13. Reconfigure the connecting computer with an IP address within the same range as the new IP address of AEMC computer.
- 14. To login to AEMC, open the Microsoft Internet Explorer on the connecting computer, and enter the AEMC's new IP address in the address bar.

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