





AREDN Firmware Installer

Hamvention 2018

What Is It?



- Windows-based AREDN installer which automatically does most of the steps necessary to install firmware on supported Ubiquiti devices.
- Developed by Darryl K5DLQ
- Still in development testing stage

Why Do You Need It?



- You might not need it of you are already experienced with the current firmware installation procedures
- For people new to AREDN firmware, the installer combines and simplifies many of the steps needed to complete the process
- It may help you restore "bricked" devices if you can get them into TFTP mode
- It simplifies your network connections during installation due to automatic Ethernet address changing on your computer

Where Can You Get It?



- Still in the development testing stage
- When it is ready for release, it will be announced and available on the AREDN.org website

Features and Functions



- Downloads the current stable AREDN firmware and save the files on your computer
- Optionally downloads the current nightly builds
- Optionally downloads the stock factory firmware
- Since all of the downloaded firmware is stored locally, you can take this computer to a site without Internet access to install or update an AREDN device
- Tests the device to make sure it is supported
- Installs the correct firmware for your device

How to Use the AREDN Installer



- Use a computer with a wired connection to the Internet and a wired connection to the Ubiquiti device
- Run the AREDN Installer as Administrator

Run Installer as Administrator



Right Click the AREDN Firmware Installer Icon



User Account Control



Allow the installer to run

😲 Usi	👽 User Account Control		×	
Ð	Do you want to allow this app from an unknown publisher to make changes to your PC?			
	Program name: Publisher: File origin:	AREDN Firmware Installer Unknown Hard drive on this computer		
Show getails		Yes No	1	
		Change when these notifications appe	20	

Installer Startup

If a new version is available, you will get a message



X

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🌞 AREDN Installer 2018.4.6.216 is available!



A new version of AREDN Installer is available!

AREDN Installer 2018.4.6.216 is now available. You have version 2018.3.8.207 installed. Would you like to download it now?

Release Notes:

AREDN Installer

Changelog ------2018.04.6.216 re-packaged 2018.03.7.207 use cached firmware when no internet is available (STOCK 2018.03.7.194 filter out disabled network interfaces 2018.03.7.191 Require Administrator access to run (changing interfaces 2018.03.7.190 various bugfixes (after loading AREDN) 2018.01.13.180 various bugfixes 2017.12.15.131 bugfixes for no internet conditions 2017.12.15.116 move data storage to user appdata 2017.12.15.113 added XW indicator create dirs before AutoUpdater runs 2017.12.14.108 various bugfixes 2017.12.14.98 added nightly build features < 👉 Skip this version 🔞 Remind me later ō Update

Start Screen

You can choose to download a variety of firmware files

AREDN Installer Version 2018	8.4.23.217			x
Download AREDN Firmware File	/s Locally		Instructions	
Download Now	Open Firmware Folder	Skip	Press DOWNLOAD to pull all firmware files from AREDN.org.	
Include Nightly Bu	uilds 📃 Include Stock F	Firmware	Press SKIP if you have previously downloaded the files.	y.
Choose a network interface	Go			
Current Device Mode UNKNOWN AirOS	Loader AREDN			
Choose a firmware version				
		~		
Device Info Manufacturer				
Board ID				
Device Family				
Device				
OS Version				
AREDN Support Status SUPPORTED TESTING	i UNSUPPORTED MIM	ures 10 XW		
REDN downloads site contacte	d successfulv.		Copyright K5DLC)© 2018



Download Firmware



Click the boxes for your chosen firmware

AREDN Installer Version 2018.4.23.217	_ x
Download AREDN rimware Files Locally	Instructions
Open Firmware Folder Ship Include Nightly Builds Include Stock Firmware	Press DOWNLOAD to pull all firmware files from AREDN.org. This only needs to be performed once to download all the files. Press SKIP if you have previously downloaded the files.
Choose a network interface Current Device Mode UNKNOWN AirOS Loader AREDN Choose a firmware version	
✓	
Device Info Manufacturer Board ID Device Family	
Device OS Version AREDN Support Status SUPPORTED TESTING UNSUPPORTED MIMO XW	
AREDN downloads site contacted successfuly.	Copyright K5DLQ © 2018 🔡

Firmware Download in Progress



The green progress bar indicates download activity

The status message at the bottom left indicates which files are being transferred



Download Completed







Select Wired Ethernet and Test



Test the node to confirm it is ready to use

AREDN Support Status will show Green boxes for Supported and AirOS devices Device picture will appear

🍪 AREDN Installer Version 2018.3.8.207	— — X
Download AREDN Firmware Files Locally Download Now Open Firmware Folder Skip Include Nightly Builds Include Stock Firmware	Instructions Unplug the device Hold the reset while plugging in. KEEP holding for approx 30 seconds until the LEDS begin flashing in an alternating pattern. (ie. 1/3, 2/4, 1/3, 2/4).
Choose a network interface Wired Ethernet Current Device Mode UNKNOWN AirOS Loader AREDN	
Choose a firmware version	
Device Info Manufacturer ubnt Board ID 0xe855 Device Family nano-m-xw Device NanoStation M5 XW	
AREDN Support Status SUPPORTED TESTING UNSUPPORTED MIMO XW Getting device info gone:	Copyright K5DLO © 2018 .:

Choose Firmware to Install



Select the firmware you will install If AirOS is 5.6.x or newer, you can only load the nightly builds unless you downgrade to AirOS 5.5.x first - Then you can load 3.16.1.1 Make sure the node is in TFTP mode

Click Yes when ready

AREDN Installer Version 2018.3.8.207	X
Download AREDN Firmware Files Locally	Instructions
Download Now Open Firmware Folder Skip	Select the firmware file/version to load.
✓ Include Nightly Builds ✓ Include Stock Firmware	
Choose a network interface	
Current Device Mode	
UNKNOWN AirOS Loader AREDN	Are you sure?
Channe - Germanian	Ready to load:
develop-176-8c5be0cf	AREDN-develop-176-8c5beOcf-ubnt-nano-m-xw-squashfs-factory.bin on a NanoStation M5 XW
Device Infe	Yes No Cancel
Manufacturer ubnt	
Board ID 0xe855	U
Device Family nano-m-xw	U U
Device NanoStation M5 XW	
AREDN Support Status	
SUPPORTED TESTING UNSUPPORTED MIMO XW	2
Prohing device dane	Convright K5DLO @ 2018 .
Lissen 3 warren were	

Uploading Firmware



The green progress bar shows that firmware is being transferred to the node

AREDN Installer Version 2018.3.8.207	×
Download AREDN Firmware Files Locally	Instructions
Download Now Open Firmware Folder Skip	Select the firmware file/version to load.
✓ Include Nightly Builds ✓ Include Stock Firmware	
Choose a network interface	
Wired Ethernet V Go	
Current Device Mode	
UNKNOWN AirOS Loader AREDN	
choose a firmware version	
develop-176-8c5be0cf	
Device Into Manufacturer ubnt	
Board ID 0xe855	
Device Family nano-m-xw	3
Device NanoStation M5 XW	U
AREDN Support Status	
SUPPORTED TESTING UNSUPPORTED MIMO XW	
Uploading firmware to the node	Copyright K5DLQ © 2018

Done Uploading and Reboot



After upload completes, the node will reboot. WAIT! It takes longer than you think for the LEDs to stop blinking! It will be in the NOCALL state - ready to configure as normal

Download AREDN Firmware File	s Locally	/	Instructions			
Download Now	Open Firmware Folder	Sk	Rebooting after firmware l	oad		
Include Nightly B	uilds 🗹 Include Stock	Firmware				
Choose a network interface						
Wired Ethernet	✓ Go					
Choose a firmware version						
develop-176-8c5be0cf		~				
Device Info						
Manufacturer ubnt						
Board ID 0xe855				U		
Device Family nano-m-xw			U			
Device NanoStation MS	5XW					
ABEDN Support Status	Fea	hures				
SUPPORTED TESTING		40 XW				
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Demonstration



How To Put Your Ubiquiti Device Into TFTP Mode