Schneider Electric

Conext® Series of Devices

solar.schneider-electric.com

Firmware Update Guide

Copyright © 2016 Schneider Electric. All Rights Reserved.
All trademarks are owned by Schneider Electric Industries SAS or its affiliated companies.

1

⚠️⚠️ **DANGER**
HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH
This Firmware Update Guide is in addition to, and incorporates by reference, the relevant product manuals for each product in the Conext family of power devices. Before reviewing this Firmware Update Guide you must read the relevant product manuals. Unless specified, information on safety, specifications, installation, and operation is as shown in the primary documentation received with the product. Ensure you are familiar with that information before proceeding.
Failure to follow these instructions will result in death or serious injury.

Overview

The Conext battery-based range of products such as the XW+ and CSW inverter/chargers and the ComBox monitoring device require periodic firmware updates to ensure that they are functioning with the latest features. These updates must be performed at the site where the hardware is installed. An experienced Conext user can perform the updates.

Scope

This document summarizes the important steps involved in updating the firmware starting with the ComBox then moving on to an XW+ or CSW device or any Conext accessory such as the Battery Monitor, SCP, and AGS. The update process involves using a firmware package available online through *http://solar.schneider-electric.com*.
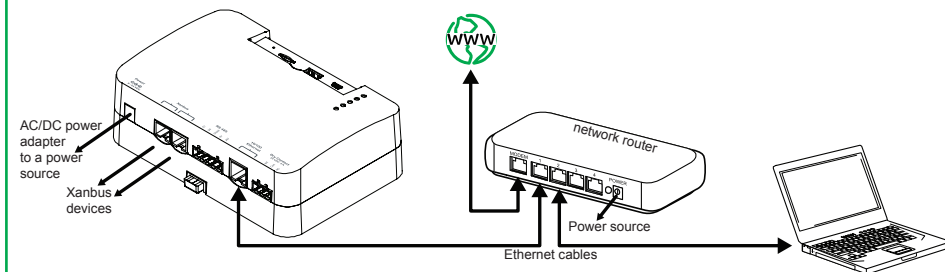
What You Need

- Conext ComBox. Refer to the link below on how to set up, configure, and power the Conext ComBox: *http://solar.schneider-electric.com/product/conext-combox/*
- Conext XW+ or CSW inverter/chargers. Refer to the link below on how to set up, configure, and power the devices: *http://solar.schneider-electric.com/product/inverterchargers/*
- USB thumb drive (1GB minimum size) to upgrade the devices' firmware, if required
- CAT5/e or CAT6 cables for network connections
- Network router (that supports DHCP) with internet connection.
- Laptop/desktop computer
- Web browser - IE version10+, Firefox version 34+, Chrome version 31+
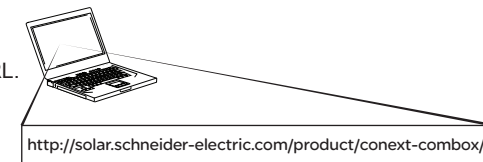

2

Upgrading the ComBox Firmware

▷ Follow the requirements listed in "What You Need". Follow a similar setup below.

AC/DC power adapter to a power source
Xanbus devices
network router
Power source
Ethernet cables

▷ Insert a blank USB thumb drive.

▷ Open a web browser and go to the URL.

http://solar.schneider-electric.com/product/conext-combox/

▷ Click on **DOWNLOADS**.

VIDEO | OVERVIEW | TECHNICAL DATA | SOLUTIONS | DOWNLOADS | COMPATIBLE PRODUCTS

Select the latest firmware (designated as *NEW*)

Downloads

Data Sheet
Technical Publications
Catalog/Brochure
Warranty
Firmware

Conext ComBox Firmware (3.00 Build 707) – NEW
Conext ComBox Firmware (2.01 Build573)
Conext ComBox Firmware (2.0 Build 658)
Conext ComBox Firmware (1.03Build463)
Conext ComBox Device Locator Software

Certification
User Documentation
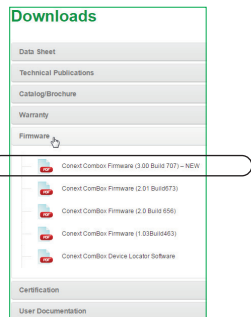
NOTE: The compressed file will download to the computer's local drive.
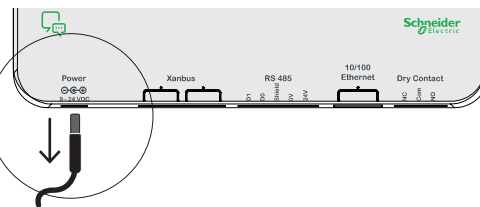
Open the compressed file.
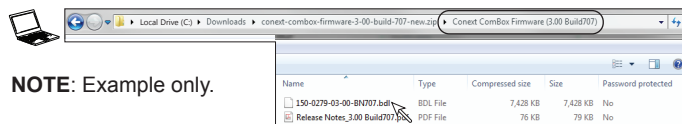
NOTE: Example only.

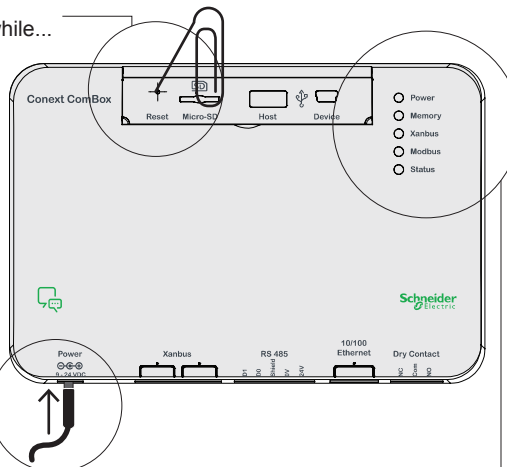Save the **.bdl** file to the root directory of the USB thumb drive.
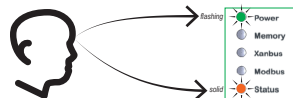
Turn off the power to the ComBox.
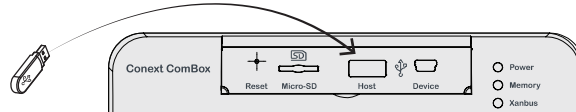
Press and hold the **Reset** button while...

... turning on power.

Release the **Reset** button when

Insert the USB thumb drive

Remove the USB thumb drive when

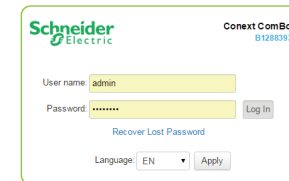Upgrade is complete when
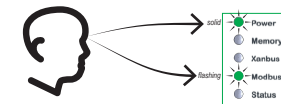
Clear web browser cache.

Log in to the Conext ComBox web user interface with your user name and password.
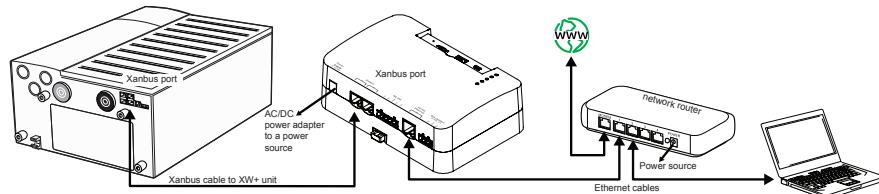
NOTE: Refer to the ComBox Owner's Guide for detailed instructions on how to log in.

IMPORTANT: A new bootloader may have been included in the firmware update package. To find out, follow the instructions under "Bootloader Upgrade" in the ComBox Owner's Guide.
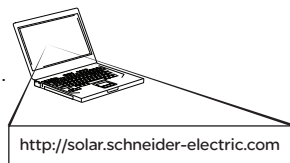
Upgrading the Firmware of Xanbus Devices using the ComBox

▷ Follow the requirements listed in "What You Need". Follow a similar setup below.

Xanbus port

Xanbus port

AC/DC power adapter to a power source

network router

www
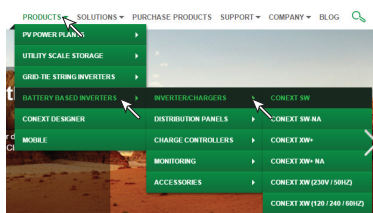
Xanbus cable to XW+ unit

Ethernet cables

Power source

NOTE: Any XW+, CSW, Battery Monitor, SCP, or AGS connected to the Xanbus network may be updated. The network router and computer must be powered separately.
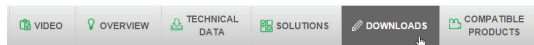
▷ Open a web browser and go to the URL.

http://solar.schneider-electric.com

▷ Select the product that needs a firmware upgrade.

PRODUCTS SOLUTIONS PURCHASE PRODUCTS SUPPORT COMPANY BLOG

PV POWER PLANT
UTILITY SCALE STORAGE
GRID-TIE STRING INVERTERS
BATTERY BASED INVERTERS   INVERTER/CHARGERS   CONEXT SW
CONEXT DESIGNER   DISTRIBUTION PANELS   CONEXT SW NA
MOBILE   CHARGE CONTROLLERS   CONEXT XW+
          MONITORING   CONEXT XW+ NA
          ACCESSORIES   CONEXT XW (230V / 50Hz)
                    CONEXT XW (120 / 240 / 60HZ)

▷ Click on **DOWNLOADS**.

VIDEO OVERVIEW TECHNICAL DATA SOLUTIONS DOWNLOADS COMPATIBLE PRODUCTS

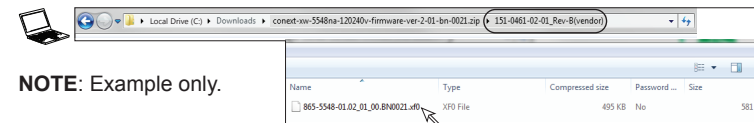
▷ Select the latest firmware (designated as *NEW*)

If there is no *NEW* designation, look for the top row in the list.

Downloads
Data Sheet
Technical Publications
Warranty
Firmware
  Conext XW+ 5548NA 120/240V Firmware (VER 2.01 BN 0021+)
  Conext XW+ 5548NA 120V Firmware (Ver 2.01 BN 0022)
  Conext XW+ 6848NA 120/240V Firmware (Ver 2.01 BN 0019)
  Conext XW+ 6848NA 120V Firmware (Ver 2.01 BN 0015)
Certification
User Documentation
Case Studies

NOTE: The compressed file will download to the computer's local drive.

▷ Open the compressed file.

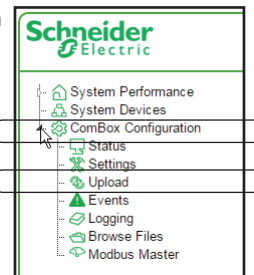Local Drive (C:) ▸ Downloads ▸ conext-xw-5548na-120240v-firmware-ver-2-01-bn-0021.zip ▸ 151-0461-02-01_Rev-B(vendor)

NOTE: Example only.

Name	Type	Compressed size	Password	Size
865-5548-01.02_01_00.BN0021.xf0	XF0 File	495 KB	No	581 KB

▷ Save the **.xf0** file to the root directory of the computer's local drive.
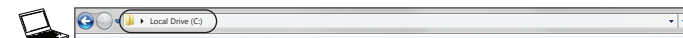
Local Drive (C:)

▷ Log in to the Conext ComBox web user interface with your user name and password.

Schneider Electric   **Conext ComBox**
B12883935

User name: admin
Password: ••••••••   Log In
          Recover Lost Password
Language EN   Apply
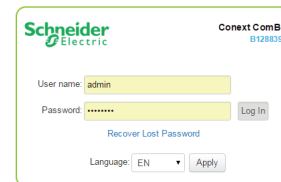
NOTE: Refer to the ComBox Owner's Guide for detailed instructions on how to log in.

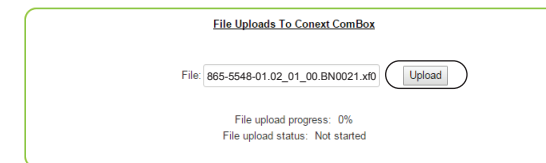▷ Click the arrow to expand **ComBox Configuration** in the menu tree.

Schneider Electric
System Performance
System Devices
ComBox Configuration
  Status
  Settings
  Upload
  Events
  Logging
  Browse Files
  Modbus Master

▷ Click **Upload** in the menu tree.

▷ Under **File Uploads to Conext ComBox**, double click on **Click to select...** in the File field.

File Uploads To Conext ComBox
File: Click to select.   Upload
File upload progress: 0%
File upload status: Not started
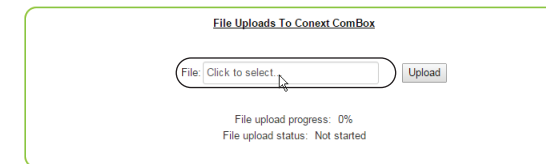
Look for the **.xf0** file within the computer's local drive and select it.

▷ Click the **Upload** button to transfer the file into ComBox.

File Uploads To Conext ComBox
File: 865-5548-01.02_01_00.BN0021.xf0   Upload
File upload progress: 0%
File upload status: Not started

Example: XW+ 5548

Once the file is successfully transferred to the Conext ComBox, go to the **Xanbus Device Upgrades** section.

Select the **Device** you want to upgrade from the drop-down list.

Xanbus Device Upgrades

Device: XW+ (14344) ▼

Firmware file: 865-5548-01.02_01_00.BN0021 ▼ [Upgrade]

Device upgrade progress: 0%
Device upgrade status: Not started

Click ↻ to confirm you have selected the device you want.
Click 👁 to activate a visual (such as a flashing LED) and/or audio (such as in AGS) indicator on the selected device.

Select the correct **.xf0** file for the device upgrade in **Firmware file**.

Click **Upgrade**.

NOTE: Device upgrade progress is indicated in percentage. The Device upgrade status shows **OK** when the upgrade has completed successfully. If the device upgrade is not successful, click **Upgrade** again to retry.

If retrying does not work:
a. Do a power cycle of the Xanbus device that is being upgraded.
b. Retry clicking Upgrade on the web interface.

NOTICE

EQUIPMENT MALFUNCTION

Certain devices such as the Conext Battery Monitor can take longer than others to upgrade. Always allow time for the device upgrade to complete. Do not power cycle the device if the upgrade is still in progress.

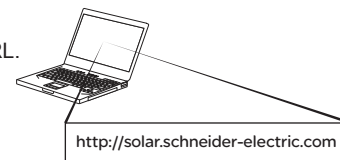**Failure to follow these instructions can damage equipment.**

Upgrading the Firmware of Xanbus Devices using the Config Tool

Follow the requirements listed in "What You Need" including the USB-to-Xanbus Adapter. You may have a similar setup below.
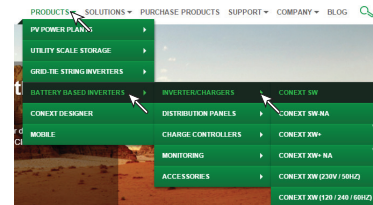
Xanbus cables
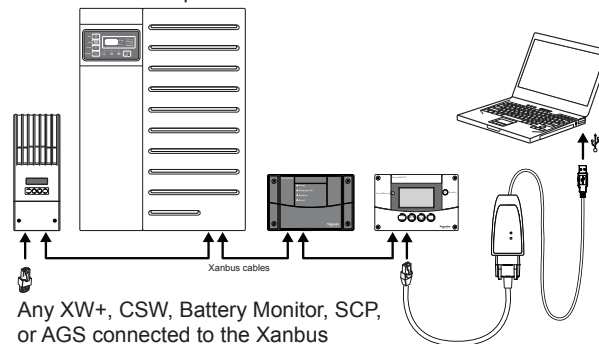
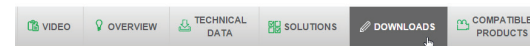**NOTE**: Any XW+, CSW, Battery Monitor, SCP, or AGS connected to the Xanbus network may be updated.

Open a web browser and go the URL.

http://solar.schneider-electric.com

PRODUCTS ▼ SOLUTIONS ▼ PURCHASE PRODUCTS SUPPORT ▼ COMPANY ▼ BLOG

PV POWER PLANTS
UTILITY SCALE STORAGE
GRID TIE STRING INVERTERS
BATTERY BASED INVERTERS   INVERTER/CHARGERS   CONEXT SW
CONEXT DESIGNER   DISTRIBUTION PANELS   CONEXT SW-NA
MOBILE   CHARGE CONTROLLERS   CONEXT XW+
                 MONITORING   CONEXT XW+ NA
                 ACCESSORIES   CONEXT XW (230V / 50Hz)
                 CONEXT XW (120 / 240 / 60Hz)

Select the product that needs a firmware upgrade.

Click on **DOWNLOADS**.

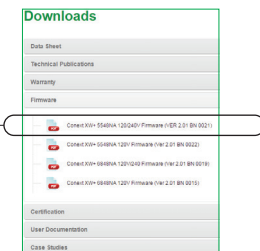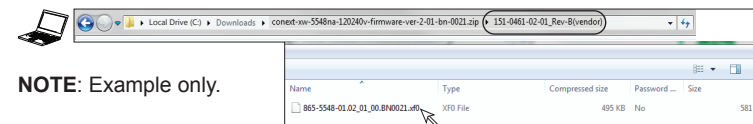📹 VIDEO 💡 OVERVIEW 📊 TECHNICAL DATA 📋 SOLUTIONS ⬇ DOWNLOADS 🔗 COMPATIBLE PRODUCTS

Select the latest firmware (designated as *NEW*)

If there is no *NEW* designation, look for the top row in the list.

Downloads

Data Sheet
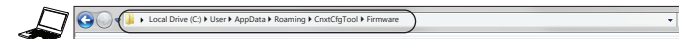Technical Publications
Warranty
Firmware
 Conext XW+ 5548NA 120/240V Firmware (VER 2.01 BN 0021)
 Conext XW+ 5548NA 120V Firmware (Ver 2.01 BN 0022)
 Conext XW+ 6848NA 120/240V Firmware (Ver 2.01 BN 0019)
 Conext XW+ 6848NA 120V Firmware (Ver 2.01 BN 0015)
Certification
User Documentation
Case Studies

NOTE: The compressed file will download to the computer's local drive.

Open the compressed file.

Local Drive (C:) ▸ Downloads ▸ conext-xw-5548na-120240v-firmware-ver-2-01-bn-0021.zip ▸ 151-0461-02-01_Rev-B(vendor)

NOTE: Example only.

Name | Type | Compressed size | Password | Size
865-5548-01.02_01_00.BN0021.xf0 | XF0 File | 495 KB | No | 581 KB

Save the **.xf0** file to the computer's local drive such as *C:\User\AppData\Roaming\CnxtCfgTool\Firmware*.

Local Drive (C:) ▸ User ▸ AppData ▸ Roaming ▸ CnxtCfgTool ▸ Firmware

Download the latest firmware for each product that you need to upgrade and save their **.xf0** files to the same folder: *C:\User\AppData\Roaming\CnxtCfgTool\Firmware*.
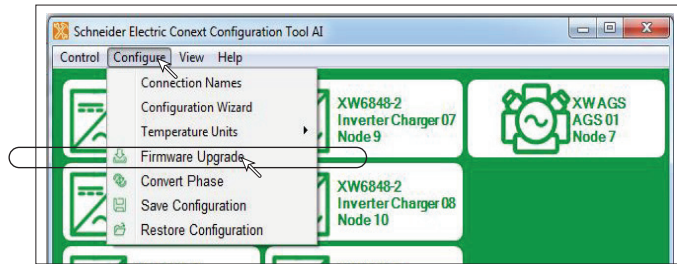
Local Drive (C:) ▸ User ▸ AppData ▸ Roaming ▸ CnxtCfgTool ▸ Firmware
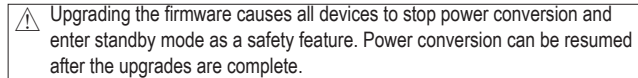
Open the **Config Tool** program.

> **NOTE**: Install the Conext Config Tool, if not already.

Go to *Configure* > *Firmware Upgrade*

A **WARNING** box with the message below appears.

> ⚠ Upgrading the firmware causes all devices to stop power conversion and enter standby mode as a safety feature. Power conversion can be resumed after the upgrades are complete.

Click **OK** to proceed.

Navigate and select the folder which contains all the firmware files that were downloaded. The **Firmware Upgrade** window appears.

> **NOTE**: If a firmware file is more recent than the device's current version, its checkbox is automatically selected. You may select an older version, by checking the box.

Click **Upgrade**.

NOTE: Progress bars for each device will be displayed below the panel, as well as an overall progress bar. Firmware is upgraded on one device at a time. No firmware changes are made to a device until the previous device is fully upgraded.