



CCU Programmer User Guide



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Tynetec, a business unit of Legrand Electric Ltd
Cowley Road, Blyth Riverside Business Park, Blyth, Northumberland, NE24 5TF.
T: +44 (0) 1670 352 371 www.tynetec.co.uk

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INTRODUCTION

The CCU Programmer is used to update the firmware in Advent XT2 controllers. First you will need to download and install SAM-BA 2.16 software on your Laptop PC.



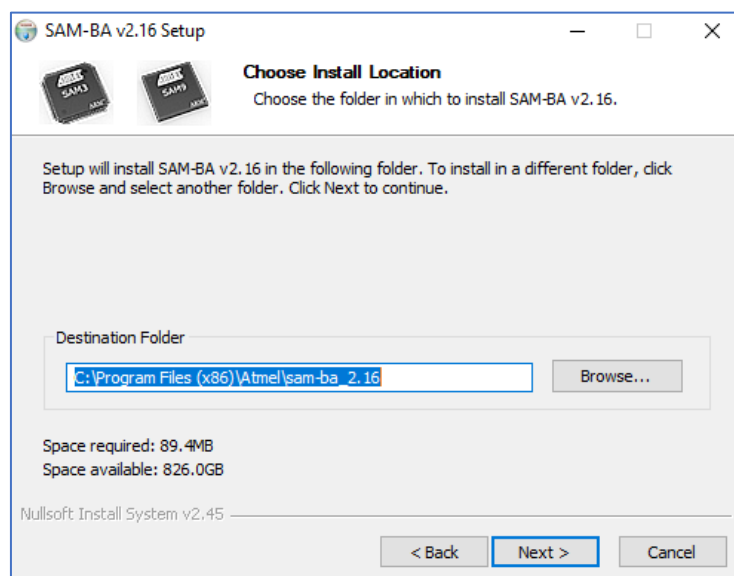
IMPORTANT: ensure there are no binary files present on the SD card of the system you are updating.

1. INSTALL SAM-BA 2.16 SOFTWARE INSTALLATION

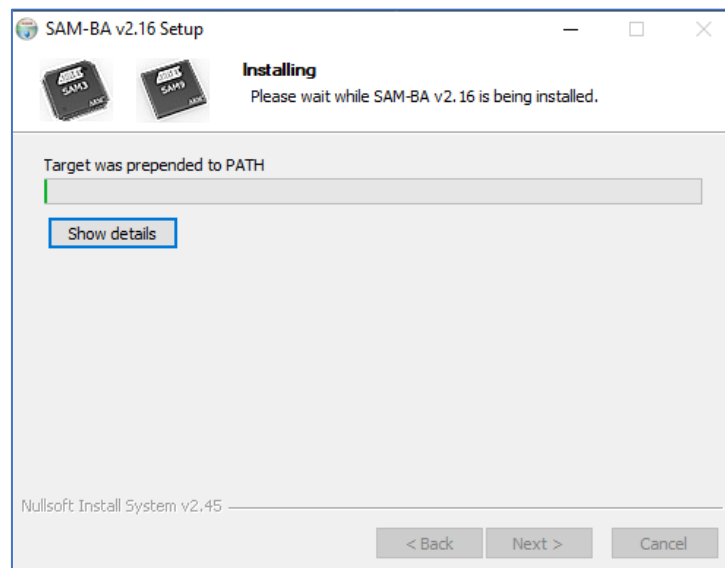
- 1.1 Download **SAM-BA 2.16 for Windows** from Tynetec on-demand:
<https://www.tynetec.co.uk/wp-content/uploads/2021/02/Samba-V2.16.zip>
- 1.2 Run sam-ba_2.16_windows.exe



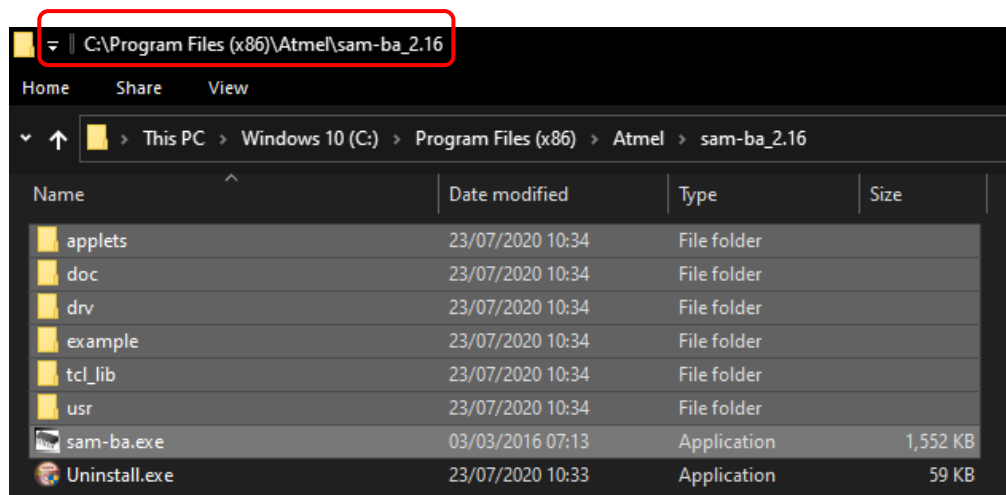
- 1.3 Select **Next** on the above window followed by **I Agree** and **Next** on the following windows.



- 1.3 Enter a destination folder, then select **Next**, then **Install**

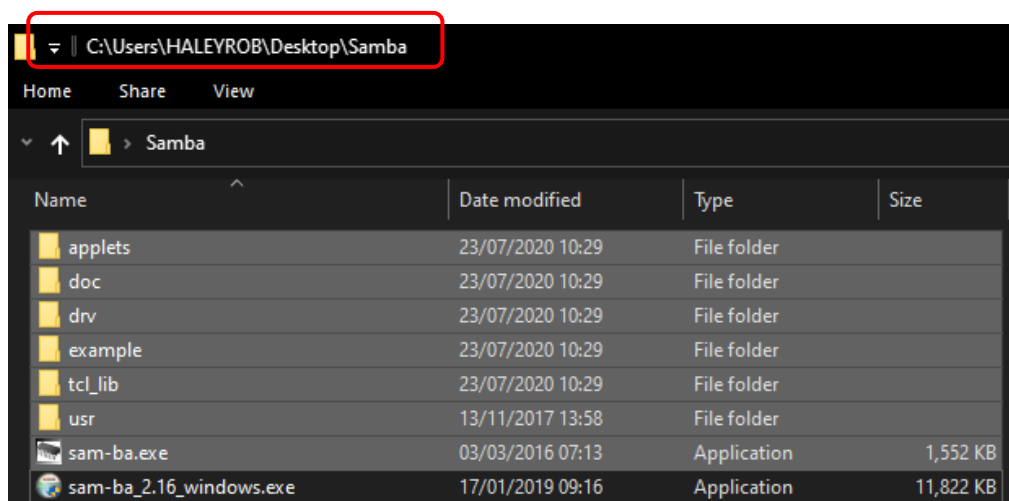


- 1.4 Once the installation is complete, **finish** the sam-ba set up process.



- 1.5 Locate the above files in the destination folder.

- 1.6 **Replace** the highlighted folders/exe above with the ones highlighted below. These can be found in the original Sam-ba folder.



2. XT2 CCU FIRMWARE UPDATE PROCEDURE

- 2.1 Connect the J-Link programmer (ZXT917) to JP1 of the A00496 Advent XT2 CCU board and power-up the system.
- 2.2 Open up the SAM-BA V2.16 software, the window in Fig 1 will result.

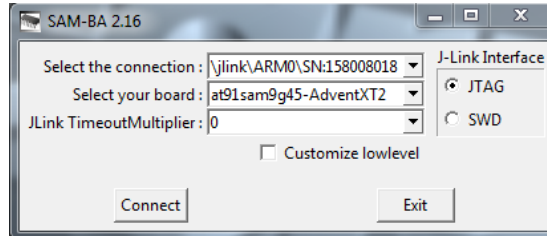


Figure 1. SAM-BA V2.16 Start Up Screen

- 2.3 Ensure 'at91sam9g45-AdventXT2' and 'JTAG' are selected then click 'Connect'
- 2.4 Once the programming interface window opens click on the tab labelled 'SerialFlash AT25/AT26'. The window in Fig 2 should result;

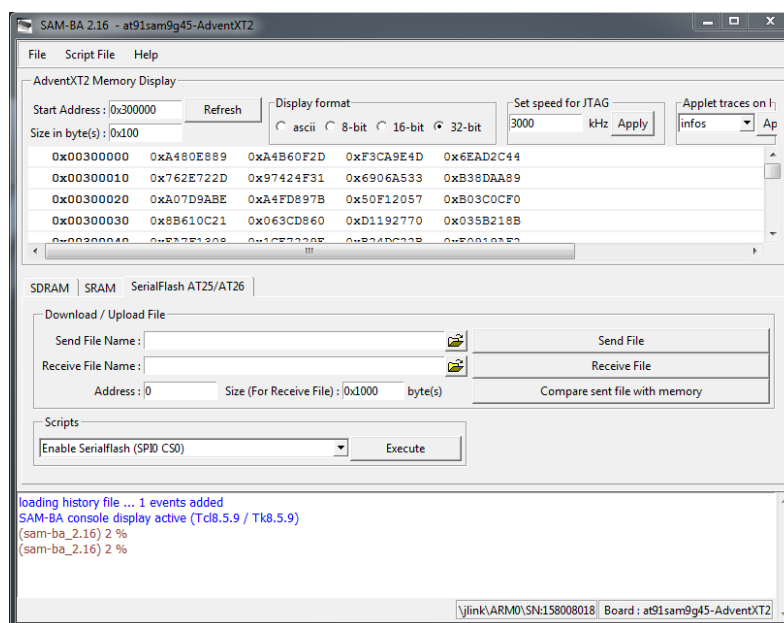


Figure 2. SAM-BA V2.16 Programming Interface Screen

- 2.5 Click the open folder icon to the left of the 'Send File' button and select the required software AdventXT2.bin
- 2.6 Click 'Execute' button to enable flash memory. An 'Applet initialization done' message should be seen in the message window of the programmer interface
- 2.7 Click 'Send File' button to program the systems firmware , a 'Sending File to the target' will be seen. Once this closes programming is complete
- 2.8 Close the SAM-BA V2.16 programming interface.