

**Firmware Upgrade of UK24BAC devices**

- Upgrade via USB 2.0 cable
- No special material required


**General information**


- The Firmware Upgrade applies only to the device UK24BAC.
- The instructions concerning setup and workflow must be observed. Belimo assumes no responsibility for devices, which are no longer usable due to inappropriate handling.

**Required Material**

Material	Obtaining
Notebook with Windows 7 / 10 and free USB interface	
USB 2.0 cable	
MIRCOCHIP FLIP - Installer (with JRE)	Internet
Firmware Upgrader UK24BAC Vx_xx.zip	Belimo Web
Product Information UK24BAC	Belimo Web

**Preparation**

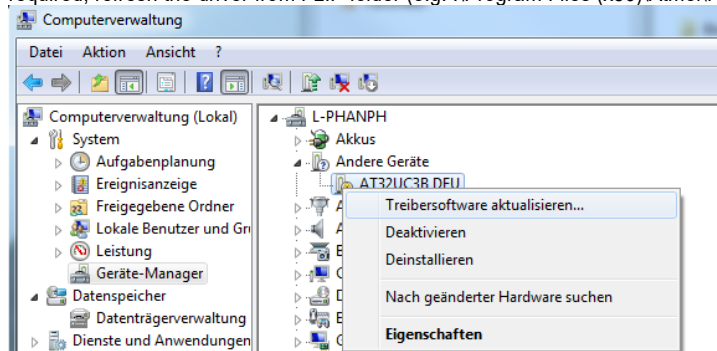
Administrator privileges are required

Download the latest Firmware Upgrader UK24BAC Vx\_xx.zip from the Belimo Web and extract it on your notebook (remark: don't change the folder structure)

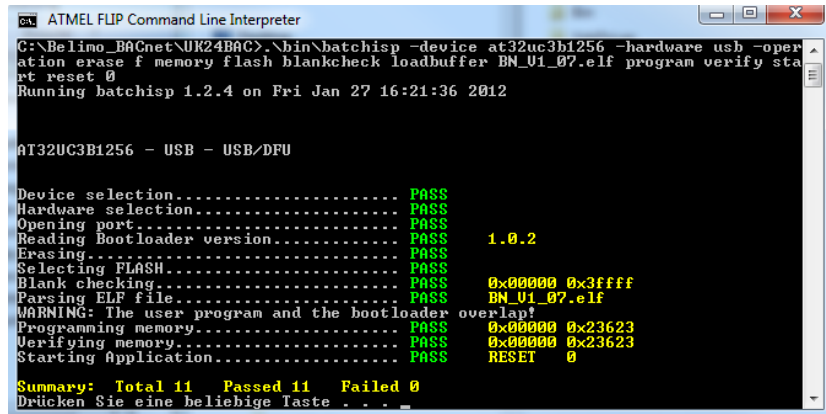
Download and install the MICROCHIP FLIP – Installer (with JRE)  
<https://www.microchip.com/developmenttools/ProductDetails/FLIP>

## Workflow

- Upgrade**
1. Disconnect the power supply from the UK24BAC
  2. Set DIP switch 4 "Programming" to ON
  3. Connect the device with the notebook via USB and wait until the power led illuminates
  4. Check the proper installation of the USB driver "AT32UC3B DFU" in the Device Manager and, if required, refresh the driver from FLIP folder (e.g. .\Program Files (x86)\Atmel\Flip 3.4.7\usb)



5. Click "**Programmer.bat**" and wait for completion of update process



```

C:\Belimo_BACnet\UK24BAC>.\.bin\batchisp -device at32uc3b1256 -hardware usb -operation erase f memory flash blankcheck loadbuffer BN_U1_07.elf program verify start reset 0
Running batchisp 1.2.4 on Fri Jan 27 16:21:36 2012

AT32UC3B1256 - USB - USB/DFU

Device selection..... PASS
Hardware selection..... PASS
Opening port..... PASS
Reading Bootloader version..... PASS          1.0.2
Erasing..... PASS
Selecting FLASH..... PASS
Blank checking..... PASS          0x00000 0x3ffff
Parsing ELF file..... PASS          BN_U1_07.elf
WARNING: The user program and the bootloader overlap!
Programming memory..... PASS          0x00000 0x23623
Verifying memory..... PASS          0x00000 0x23623
Starting Application..... PASS          RESET 0

Summary: Total 11 Passed 11 Failed 0
Drücken Sie eine beliebige Taste . . .
  
```

Important note: Total 11; Passed 11; Failed 0

6. After the upgrade, the device starts normal operation and is scanning the bus:
  - LEDs *MP1* to *MP8* blink in series
  - LED *MP-Bus* is flashing;
  - LED *Com* is flashing
7. Disconnect USB cable
8. Set DIP switch 4 "Programming" to OFF

For the upgrade of further devices follow the instructions from step 1

### Post processing

- The UK24BAC device is immediately ready to use
- Check and readjust the BACnet settings via BACnet Client software
- Letter the upgraded device with the current firmware

## Troubleshooting

- UK24BAC not recognized**
- Check the LED *Power* (device)
- Could not open USB device**
- Check the DIP switch positions
  - Check USB port (Windows device manager)
  - Disconnect the USB cable, wait 20 seconds and reconnect the cable