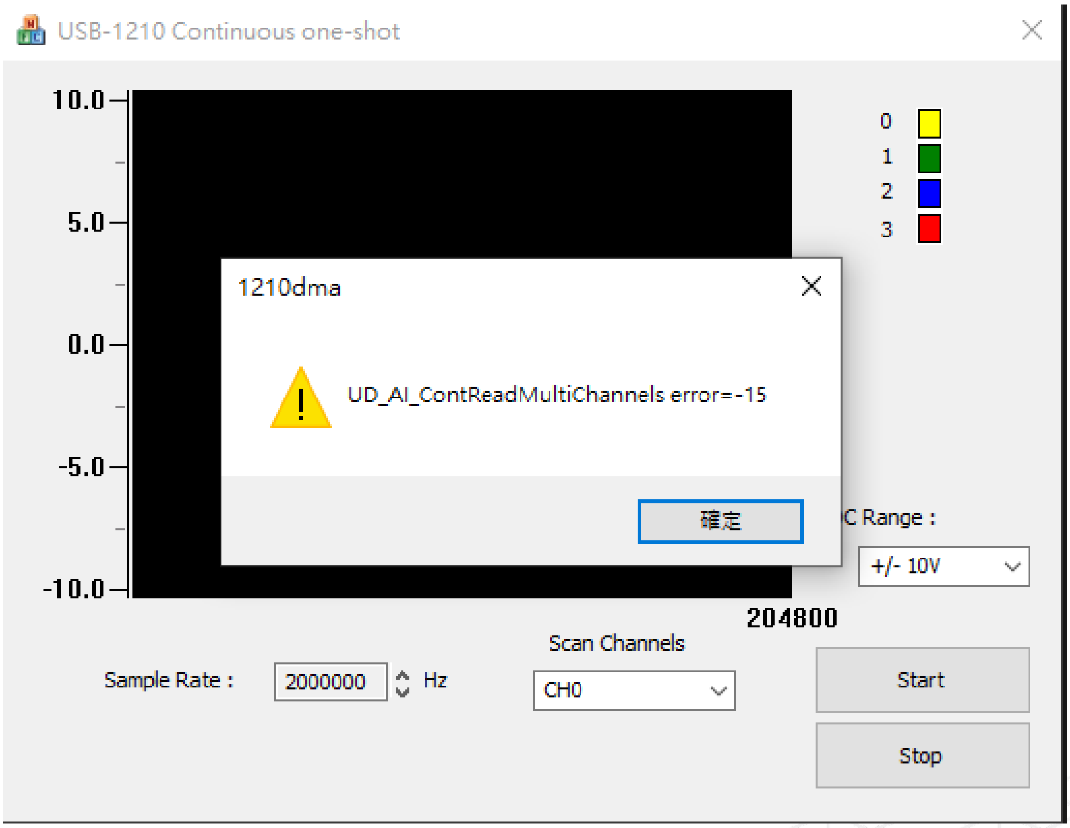
ADLINK Technical Document

Abstract	How to Adjust the Buffer Size
OS	Windows
Keyword	Buffer size,
Related Products	WD-DASK, UD-DASK, PCIS-DASK, DSA-DASK, D2K-DASK
Date	2021-12-29 **No.**

- Issue Details:

When the sample count exceeds the buffer size, it can cause the -15 error (ErrorTransferCountTooLarge). This document outlines how to adjust the buffer to a suitable size and prevent this error.



- Solution:

Step 1: Check current settings

Please check the following settings:

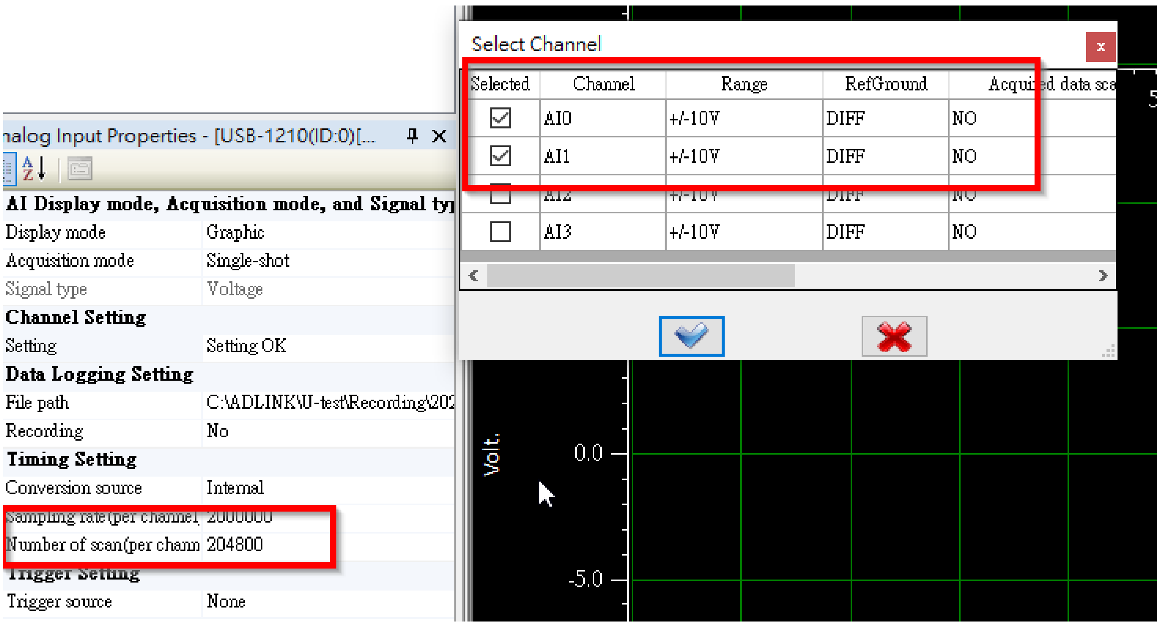
- **Channel count**: The number of channels used
- **Sample count**: The number of samples per channel
- **Re-Trigger count:** When you use trigger mode, the trigger count that you used. If users don't use Trigger mode, the Re-Trigger count is 1.

Step 2: Calculate minimum buffer size

After checking these values, calculate the required buffer size as follows:

- **Channel count × Sample count × Re-Trigger count × data size (byte)**

NOTE: If you use double buffer mode (continue mode), double the buffer size

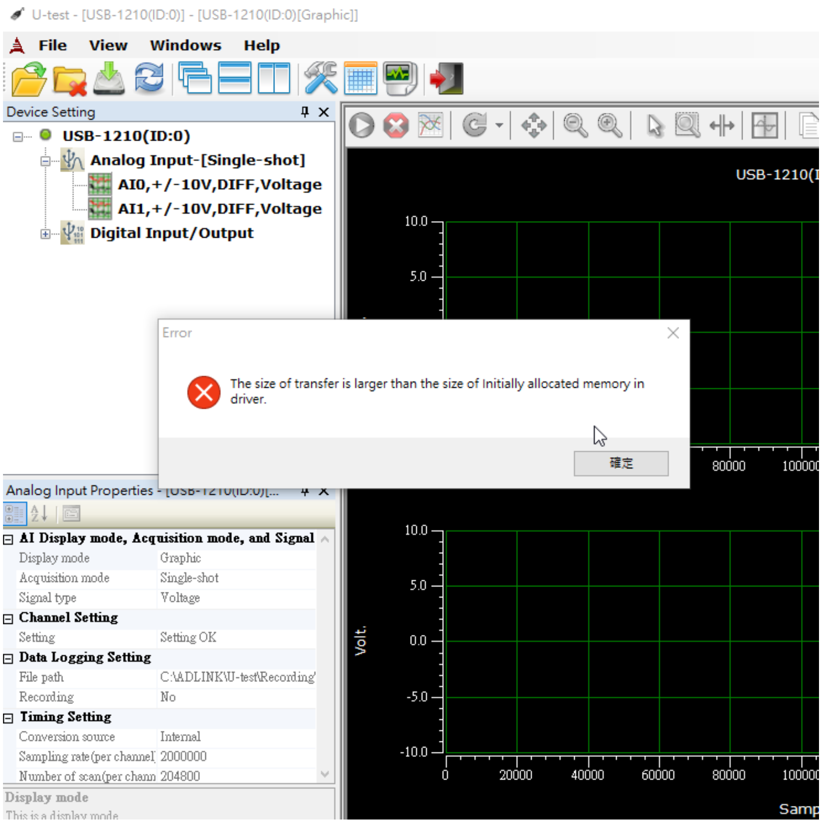


In the ADLINK USB Utility (U-Test) example above, the channel count is 2, the sample count is 204800, and Trigger mode is off. So the ideal buffer size is:

$2 \times 204800 \times 1 \times 2 = 819200$ bytes

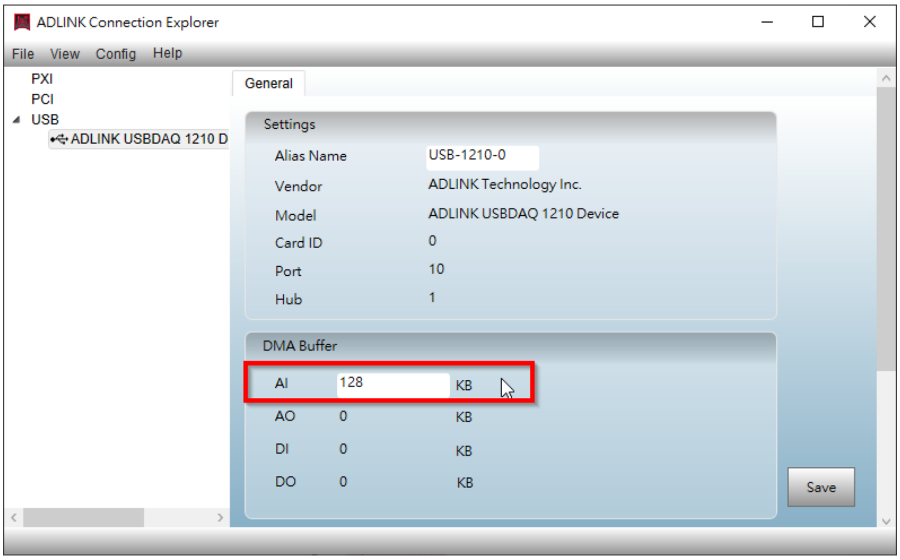
Step 3: Insufficient buffer size warning

If the allocated buffer size is smaller than the calculated minimum (819 KB in the example above) the following error displays.



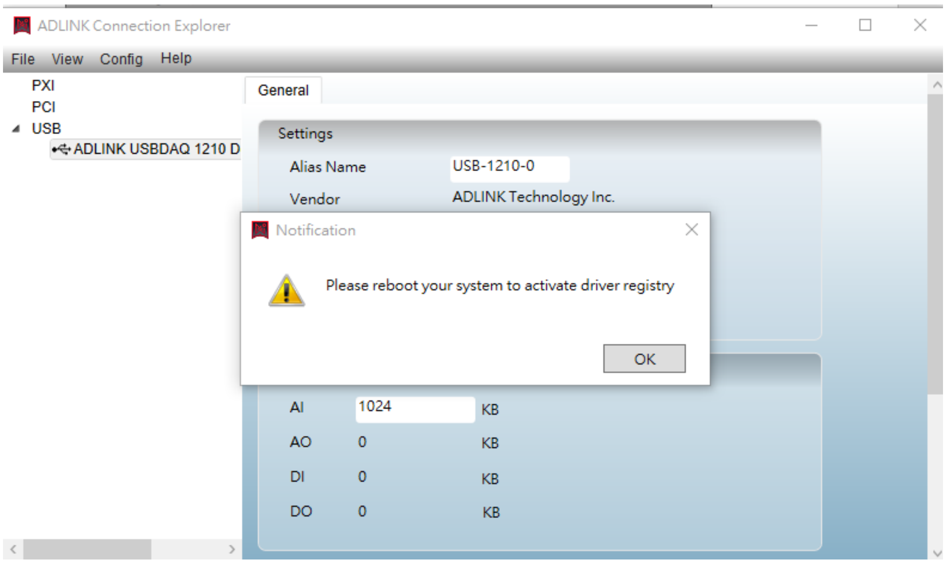
Step 4: Check the current buffer size

The default buffer size of the Execute ADLINK ACE is 128 KB, so adjust the size equal to or greater than the calculated minimum size.



Step 5: Adjust the buffer size

Try setting the buffer size to 1024 KB, and then ACE will show a popup warning message to reboot your device.



Step 6: Confirm settings

Execute ADLINK U-Test to check there are no error messages and everything is working correctly.