

# Advantech AE Technical Share Document

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Category	■FAQ □SOP	Related OS	N/A
Abstract	How to read IO data through command line?		
Keyword	IO tag, read, DC_tag, multiple tags, single tags		
Related Product	ADAM-3600, ECU-1152, ECU-1251, ECU-1051		

## ■ Problem Description:

This document explains how to read IO data through command line.

## ■ Answer:

There are 2 commands:

1. dc\_tag\_read "tag\_name" //read 1 time

```
root@adam3600:~# dc_tag_read
usage: dc_tag_read <tag_name> ...
       or echo "<tag_name>" ... | dc_tag_read
       or cat tag_list.txt | dc_tag_read
       or dc_tag_read < tag_list.txt
root@adam3600:~#
```

2. dc\_tag\_read\_subscription "tag\_name" //read continuously until press Ctrl+C

```
root@adam3600:~# dc_tag_read_subscription
usage: dc_tag_read_subscription <tag_name> ...
       or echo "<tag_name>" ... | dc_tag_read_subscription
       or cat tag_list.txt | dc_tag_read_subscription
       or dc_tag_read_subscription < tag_list.txt
```

## Method 1: Read single tag

- Ex: dc\_tag\_read "BoardIO:AI\_0"

```
root@adam3600:~# dc_tag_read_subscription "BoardIO:AI_0"
Current System Time: Tue Apr 1 14:04:26 2014

Tag Name      Value      Quality Time Stamp (UTC)
-----
BoardIO:AI_0  0.701457   0000H  2014-04-01 06:04:27 (1396332267.667867)
Current System Time: Tue Apr 1 14:04:28 2014

Tag Name      Value      Quality Time Stamp (UTC)
-----
BoardIO:AI_0  0.703593   0000H  2014-04-01 06:04:28 (1396332268.628117)
Current System Time: Tue Apr 1 14:04:29 2014
```

## Method 2: Read multiple tags.

- Ex: dc\_tag\_read\_subscription "BoardIO:AI\_0" "BoardIO:AI\_1"

```
root@adam3600:~# dc_tag_read_subscription "BoardIO:AI_0" "BoardIO:AI_1"
Current System Time: Tue Apr 1 14:03:08 2014
```

Tag Name	Value	Quality	Time Stamp (UTC)
BoardIO:AI_0	0.695659	0000H	2014-04-01 06:03:09 (1396332189.905663)
BoardIO:AI_1	7.749599	0000H	2014-04-01 06:03:09 (1396332189.905663)

```
Current System Time: Tue Apr 1 14:03:10 2014
```

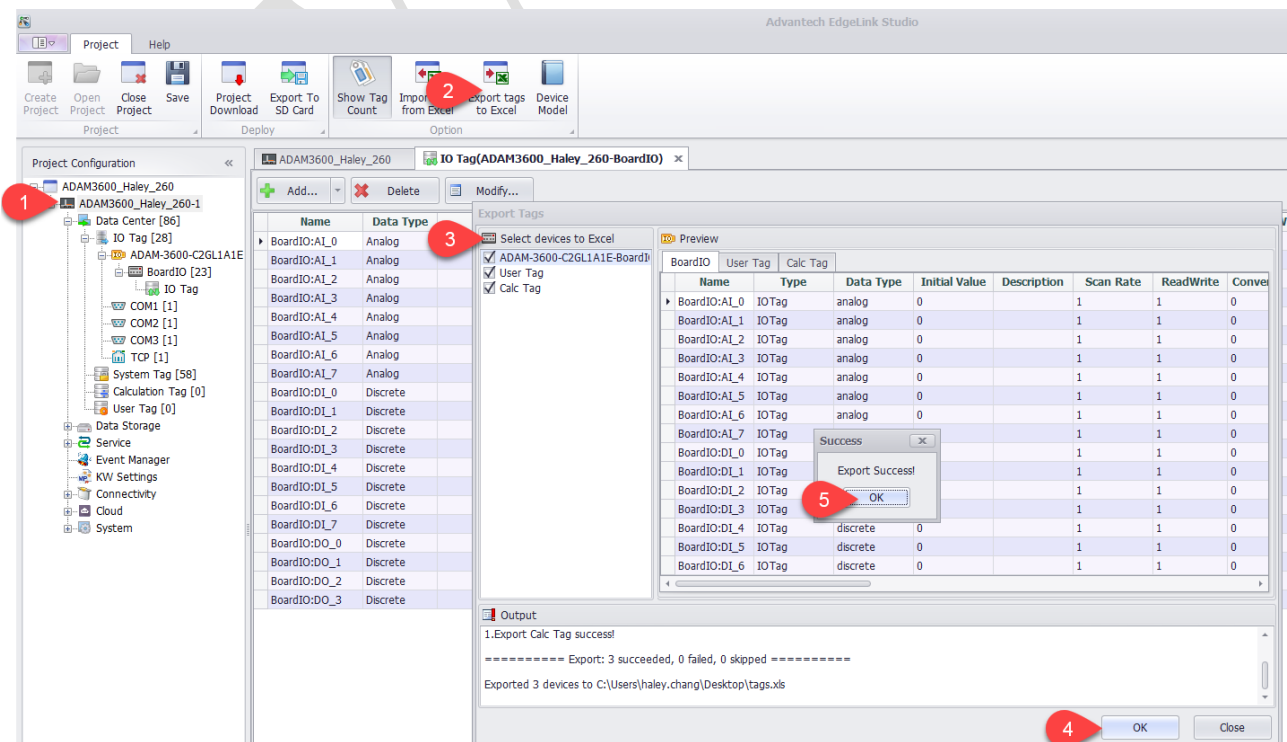
Tag Name	Value	Quality	Time Stamp (UTC)
BoardIO:AI_0	0.702373	0000H	2014-04-01 06:03:10 (1396332190.863098)
BoardIO:AI_1	7.749294	0000H	2014-04-01 06:03:10 (1396332190.863098)

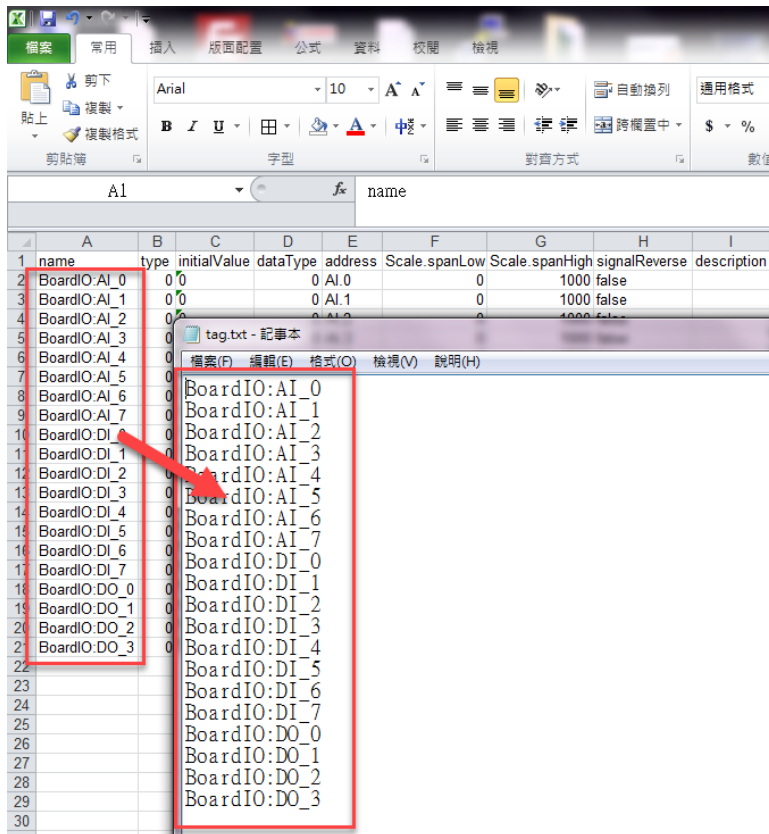
```
Current System Time: Tue Apr 1 14:03:12 2014
```

Tips: If you have a lot of tags, cannot type-in the tag\_name one-by-one, suggest to use \*.txt file.

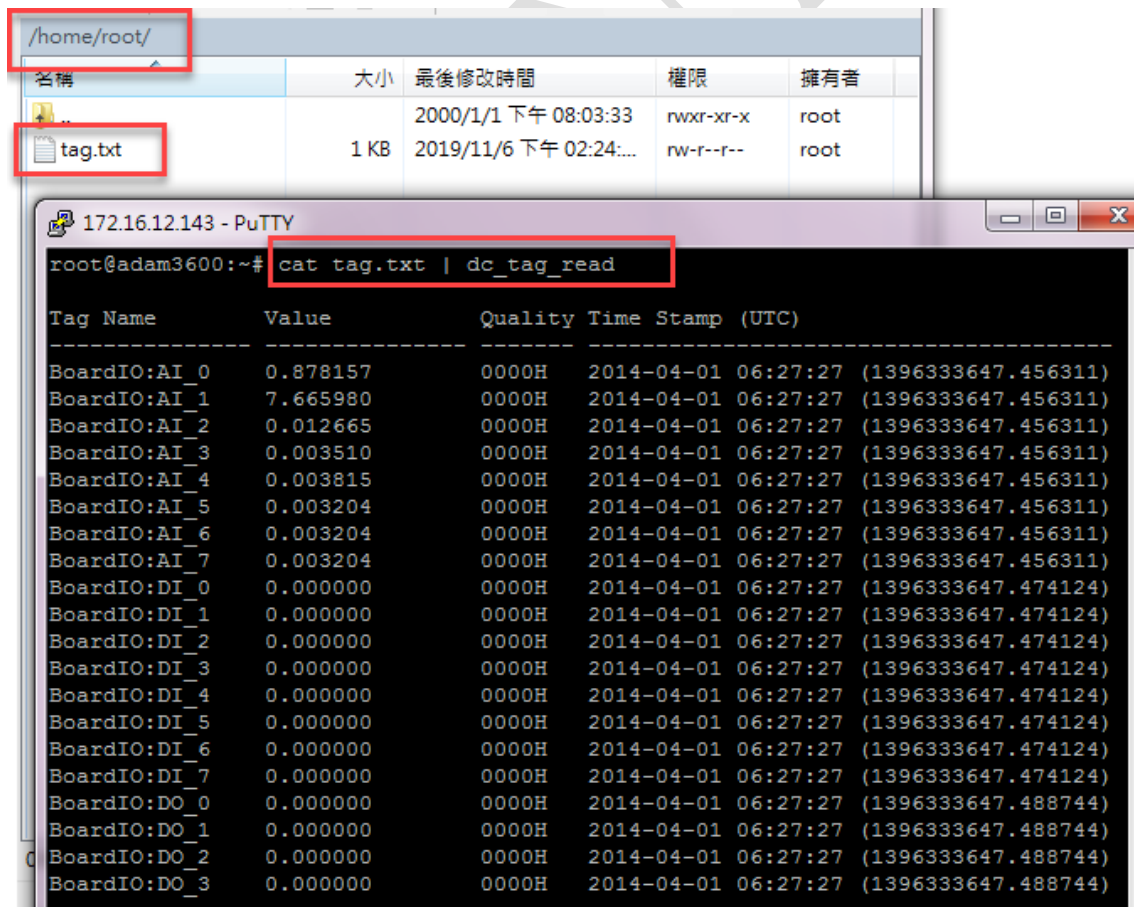
1. Export tags to excel
2. Copy-paste only tags to notepad.
3. Transfer the \*.txt file into ADAM-3600 under the executed folder.
4. #define MAX\_TAG\_COUNT 100

```
root@adam3600:~# dc_tag_read
usage: dc_tag_read <tag_name> ...
       or echo "<tag name>" ... | dc tag read
       or cat tag_list.txt | dc_tag_read
       or dc tag read < tag list.txt
root@adam3600:~#
```





Reading result:



More detail can be found on support portal:

[https://support.advantech.com/support/DownloadSRDetail\\_New.aspx?SR\\_ID=1-1DGHI7U&DocSource=Download](https://support.advantech.com/support/DownloadSRDetail_New.aspx?SR_ID=1-1DGHI7U&DocSource=Download)

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## DCTag SDK 2.0.0

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Document Type	Software API	Related OS	
Related Product	ADAM-3600 / ADAM-3600-A1FN0AE / ADAM-3600-BTO / ADAM-3600-C2GL1A / ADAM-3600-C2GL1A1E / ADAM-3600-C2GL1AE / ADAM-3600/SS-AE / ECU-1152 / ECU-1152-BTO / ECU-1152-R11ABE / ECU-1152-R11ABE / ECU-1152TL-...more		

**BoardResource\_and\_DCTag\_SDK\_2.1.1**

Solution : BoardResource\_and\_DCTag\_SDK\_2.1.1 (Only support 32 bit compiling environment.)

Download File	Released Date	Download Site
BoardResourceSDK_2.1.1.tar.gz	2017-07-31	<a href="#">Primary</a> <a href="#">Secondary</a>
DCTagSDK_2.1.1.tar.gz	2017-07-31	<a href="#">Primary</a> <a href="#">Secondary</a>

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