ADLINK Technical Document

Abstract	How to install Linux drivers for the PCIS-DASK/2	х	
OS	Linux		
Keyword	Linux, PCIS-DASK/X		
Related Products	PCI-6202, PCI-6208A, PCI-6208V, PCI-6216V, PC PCI-7200/cPCI-7200, PCI-7230, cPCI-7230, PCI- PCI-7248, cPCI-7248, PCI-7224, cPCI-7249R, PC PCI-7258, PCI-7260, PCI-7296, PCI-7300A, cPCI- PCIe-7350, PCIe-7360, PCI-7396/PCI-7348, PCI- cPCI-7432R, PCI-7433, cPCI-7433, cPCI-7433R, cPCI-7434R, PCI-7433C, PCI-7434C, PCI-7432R, PCI- PCI-7452, PCI-8554, PCI-9111, PCI-9112, cPCI- PCI-9114A, cPCI-9116, PCI-9118, PCI-9221, PCI- PCI-9812, PCI-9810	CI-63084 7233/P(I-7250, -7300A, 7432, c PCI-743 PCI-7443 9112, P -9222, F	A, PCI-6308V, CI-7233H, PCI-7234, cPCI-7252, PCI-7256, PCIe-7300A_RevC, PCI-7432, 4, cPCI-7434, 8, PCI-7444, CI-9113, PCI-9114, PCI-9223, PCI-9524,
Date	2021-09-10	No.	202110003

• Issue Details:

To build a Linux software application to operate an ADLINK DAQ card (e.g., PCI-9222), download the Linux drivers and install them. The steps for downloading and installing the Linux drivers are detailed in this document.

• More information:

ADLINK provides pre-built driver binaries for Ubuntu LTS Linux kernels. These binaries are regularly updated and officially supported to work with specific Linux kernels indicated in this document and on the ADLINK website. If you want to use another Linux OS or Linux Kernel, you need to sign the NDA to get the driver source code and build the Linux driver by yourself.



• Solution:

Step 1:

Find out the system kernel version. Go to the terminal and type "uname -a"

NOTE: ADLINK only supports Linux Kernel version 4.15.0-20-generic, 5.4.0-26-generic, and 5.4.0-47-generic.

Γ	adlink@adlinl	k: ~/Desktop/PCIS-I	DASK-X_pl	kg_x64	Q	Ξ			×
adlink@adlink:~/De Linux adlink 5.4.0 x86_64 x86_64 GNU adlink@adlink:~/De	esktop/PCIS-D -26-generic //Linux esktop/PCIS-D	ASK-X_pkg_x64\$ #30-Ubuntu SMP ASK-X_pkg_x64\$	uname -a Mon Apr	a 20 16:	58:30) UTC	2020	x86_	_64





Step 2:

Go to the official ADLINK website, search for "PCIS-DASK/X", and download the driver corresponding to your OS and kernel version.

Direct link (login required):

https://www.adlinktech.com/Products/Data_Acquisition/SoftwareandDrivers/PCIS-DASK_X

Software Download :

PCI-9222/9223 Driver

Linux Ubuntu



PCIS-DASK/X, v21.03 for Ubuntu 18.04 & 20.04 (4.15.0-20-generic, 5.4.0-26-generic, 5.4.0-47-generic) (4.48MB) Upload: 2021-03-24





Step 3:

Unpack the .gz file downloaded in the step above. There are two files in the target folder.





Step 4:

Double-click the .deb file in the graphical user interface. If prompted to select an application, select "Software Install". Follow the prompts until installation is complete. Reboot when done.







Step 5:

After reboot, go to the terminal and type "Ispci -vxxx" to check if the system detected and allocated resources for ADLINK devices.

Interpretation in the image of the image	×
fo: 00 00 00 00 00 00 00 00 00 00 00 00 00	
07:03.0 Signal processing controller: Adlink Technology Device 9222 (rev 01)	
Subsystem: Adlink Technology Device 9222	
Flags: bus master, slow devsel, latency 32, IRQ 18	
Memory at b0c00000 (32-bit, non-prefetchable) [size=2K]	
I/O ports at d000 [size=256]	
Kernel driver in use: PCI-9222 Driver	
Kernel modules: p9222	
20.00000000000000000000000000000000000	
50: 00 00 00 00 00 00 00 00 00 00 00 00 0	
60: 00 00 00 00 00 00 00 00 00 00 00 00 0	
70: 00 00 00 00 00 00 00 00 00 00 00 00 0	
80: 00 00 00 00 00 00 00 00 00 00 00 00 0	
90: 00 00 00 00 00 00 00 00 00 00 00 00 0	
a0: 00 00 00 00 00 00 00 00 00 00 00 00 0	





Step 6:

Go to the terminal and type "Ismod" to check the driver service is activated and running in the Linux kernel.

F	root@adlink: /hom	e/adlink/Desktop/PCIS-DASK-X_21.03_release	Q ≡	-	×
intel_cstate	20480	0			
<pre>sch_fq_codel</pre>	20480	9			
p9812	61440	0			
p9524	86016	0			
p9223	90112	0			
p9222	94208	0			
p9221	49152	0			
p9118	61440	0			
p9116	65536	0			
p9114	65536	0			
p9113	61440	0			
p9112	61440	0			
p9111	65536	0			
p8554	53248	0			
p7452	57344	0			
p7444	69632	0			
p7443	57344	0			
p7442	65536	0			
p7434	53248	0			
p7433	53248	0			
p7432	53248	0			
p7396	57344	0			
p7350	102400	0			
p7300c	65536	0			
p7300b	73728	0			
p7296	57344	0			
p7260	57344	0			
p7258	53248	0			
p7256	53248	0			
p7252	53248	0			
p7250	53248	0			
p7249	57344	0			
p7248	57344	0			



Step 7:

The ADLINK software package deploys files such as documents, utilities, and samples to the following folder: //usr/local/adlink/pcis-dask/



Step 8:

Choose a sample program (e.g., //usr/local/adlink/pcis-dask/samples_x64/9222/c9222_AI_DBF). Users can modify the sample program as needed and type "make" to build the executable.







Step 9:

Launch the executable and check the output. The image below shows a successful execution of the ADLINK DAQ and the acquired data output to a .dat file.





Step 10:

If necessary, adjust the data acquisition settings (default: 1 MB, 256 pages). To change the settings, go to the terminal and type "./reconfig.sh". Refer to the following images for further details.

a. Choose "(1) Change to user settings".



b. Select the card type for configuration.

							_										
F			adlink	@adlink: /usr/l	local/adlink/	pcis-dask		Q	Q =	Q = -	Q = _ 0	Q = - 0	Q = - 0	Q = _ 0	Q = (Q = - 0 8	Q = - 0 8
	====== Confi	oured Car	rds ==														
Card Type	Cards Buf	fer Size	Funit	: pages(4KB	(page)]												
cond type		AT	AO														
PC16202	1	0	256	0	0												
PC17300B	1	0	0	256	256												
PCI7350	1	0	0	256	256												
PCI9221	1	256	0	0	0												
PCI9222	1	256	25	6 256	256												
PCI9223	1	256	25	6 256	256												
PCI9524	1	256	0	0	Θ												
PCI7300C	1	0	0	256	256												
				=======================================													
(1)PCI6202	(2)PCI6208	(3)PCI67	308	(4)PCI7200	(5)PCI72	30											
(6)PCI7233	(7)PCI7234	(8)PCI72	248	(9)PCI7249	(10)PCI7	250											
(11)PCI7252	(12)PCI7256	(13)PCI7	7258	(14)PCI7260	(15)PCI7	296											
		(17)PCI7	7300A	RevB	(18)PCI7	350											
(19)PCI7396	(20)PCI7432	(21)PCI7	7433		(23)PCI7	434											
	(25)PCI7442	(26)PCI7	7443	(27)PCI7444	(28)PCI7	452											
(29)PCI9111	(30)PCI9112	(31)PCI9	9113	(32)PCI9114	(33)PCI9	116											
(34)PCI9118	(35)PCI9221	(36)PCI9	9222	(37)PCI9223													
(39)PCI9524	(40)PCI9812	(41)PCI8	3554	(42)PCI7360													
(43)PCI7300	A RevC					_											
Select	the card type	for confi	lgurati	ion, or '0'	to exit:3	6											



F			adlink@	adlink: /usr/l	ocal/adlink/pcis-dask	Q		0
Card Type	Cards B	uffer Size AI	[unit: AO	pages(4KB) DI [(page)] 00			
PCI6202	1	0	256	0	0			
PCI7300B	1	Θ	0	256	256			
PCI7350	1	Θ	0	256	256			
PCI9221	1	256	0	Θ	0			
PCI9222	1	256	256	256	256			
PCI9223	1	256	256	256	256			
PCI9524	1	256	0	Θ	0			
PCI7300C	1	Θ	0	256	256			
==========	===========	=============		===========				
(1)PCI6202	(2)PCI6208	(3)PCI63	308 (*	4)PCI7200	(5)PCI7230			
(6)PCI7233	(7)PCI7234	(8)PCI72	248 (9)PCI7249	(10)PCI7250			
(11)PCI7252	(12)PCI725	6 (13)PCI	7258 (14)PCI7260	(15)PCI7296			
		(17)PCI	7300A R	evB	(18)PCI7350			
(19)PCI7396	(20)PCI743	2 (21)PCI	7433		(23)PCI7434			
	(25)PCI744	2 (26)PCI	7443 (27)PCI7444	(28)PCI7452			
(29)PCI9111	(30)PCI911	.2 (31)PCI	9113 (32)PCI9114	(33)PCI9116			
(34)PCI9118	(35)PCI922	1 (36)PCI	9222 (37)PCI9223				
(39)PCI9524	(40)PCI981	.2 (41)PCI8	3554 (*	42)PCI7360				
(43)PCI7300A	RevC							
Select t	he card typ	e for confi	igurati	on, or '0'	to exit:36			
Select t	ig (2)Rese he config t	ype for cor	it nfigura	tion, or 'G)' to exit:1			

c. Select "(1) User Config" for configuration.

d. Enter memory pages for AI/AO/DI/DO for your device. Confirm the settings are correct.

****** DASK LINUX Configuration Utility *****	
Card_Type : PCI9222	
How many PCI9222 adapters in your machine : 1 Memory pages for AI function (1 Mem_Page = 4 KB) : 1024	
Memory pages for AO function (1 Mem_Page = 4 KB) : 1024	
Memory pages for DI function (1 Mem_Page = 4 KB) : 1024	
Memory pages for DO function (1 Mem_Page = 4 KB) : 1024	
The setting for PCI9222 :	
AI: 1024 Pages AO: 1024 Pages DI: 1024 Pages DO: 1024 Pages for 1 PCI9222 Cards	
are these correct (Y/N) ? y	



Configured Cards Cards Buffer Size [unit: pages(4KB/page)] AI AI OI DO Cf6202 1 0 256 0 0 Cf6202 1 0 256 256 Cf6202 1 0 0 256 256 Cf6202 1 0 0 256 256 Cf7350 1 0 0 256 256 Cf9221 1 256 0 0 0 Cf9222 1 1024 1024 1024 1024 Cf9223 1 256 256 256 256 Cf9224 1 256 0 0 0 256 256 Cf9223 1 256 0 0 0 256 256 Cf9223 1 256 0 0 0 0 256 256 Cf9223 1 256 10 0 0 256 256 Cf927233 (7)PCI7234 (8)PCI7248 (9)PCI7249 (10)PCI7250	ΓŦ			adlink	@adlink: /usi	r/local/a	dlink/pc	is-dask		(Q	Q ≡	Q ≡ -	Q ≡ _ □
and Type Cards Buffer Size [unit: pages(4KB/page)] AI AO DI DO L1 AO DI DO DI DO L17360 1 0 256 256 256 L17350 1 0 0 256 256 L19221 1 256 0 0 0 L19222 1 1024 1024 1024 1024 L19223 1 256 256 256 256 L19224 1 256 0 0 0 256 256 L19223 1 256 0 0 0 256 256 L19224 1 256 0 0 0 256 256 L1924 1024 1024 1024 1024 1024 L19223 1 256 256 256 256 L1924 10 0 0 256 256 L19252 (12)PCI7234 (8)PCI7248 (9)PCI7249 (19)PCI7250		====== Confi	igured Ca	rds ==			==							
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H3)PCI7300A RevC Select the card type for configuration, or '0' to exit:0□	(39)PCI9524	(40)PCI9812	(41)PCI8	3554	(42)PCI736	0								
Select the card type for configuration, or '0' to exit:0	(43)PCI7300A	A RevC												
	Select t	the card type	for confi	igurat	ion, or '0	' to ex	it:0							

e. Exit the configuration utility.

f. Update to grub.

			 _	4
Ē	adlink@adlink: /usr/local/adlink/pcis-dask	Q =		×
GRUB_TIMEOUT_STYLE=hidden GRUB_TIMEOUT=10				
GRUB_DISTRIBUTOR=`lsb_release -i GRUB_CMDLINE_LINUX_DEFAULT="quiet GRUB_CMDLINE_LINUX="memmap=2M\\\\$	-s 2> /dev/null echo Debian` splash initcall_blacklist=adl_pci9111" 0x20500000"			
# Uncomment to enable BadRAM filt # This works with Linux (no patch # the memory map information from #GRUB_BADRAM="0x01234567,0xfefefe	ering, modify to suit your needs required) and with any kernel that obtains GRUB (GNU Mach, kernel of FreeBSD) fe,0x89abcdef,0xefefefef"			
# Uncomment to disable graphical #GRUB_TERMINAL=console	terminal (grub-pc only)			
# The resolution used on graphica # note that you can use only mode # you can see them in real GRUB w #GRUB_GFXMODE=640x480	l terminal s which your graphic card supports via VBE ith the command `vbeinfo'			
# Uncomment if you don't want GRU #GRUB_DISABLE_LINUX_UUID=true	B to pass "root=UUID=xxx" parameter to Linu	x		
<pre># Uncomment to disable generation #GRUB_DISABLE_RECOVERY="true"</pre>	of recovery mode menu entries			
# Uncomment to get a beep at grub #GRUB_INIT_TUNE="480 440 1" Do you update to grub(Y/N)?y	start			



g. Reboot the system.



