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How to back up and restore the I-87K module settings on the PAC host?



When using DCON Utility Pro to search for the modules on the PAC host slot, including serial communication I-8K (parallel communication I/O) and I-87K (serial communication I/O) modules. Parallel communication module control settings are written in the development program through SDK (API library), there is no setting problem. The serial communication module must be set through commands, and the relevant settings are stored in the EEPROM of the module. Therefore, it is necessary to save the relevant settings of the module as a file in case the module is damaged and replaced in the future. DCON Utility Pro provides the function of saving the I-87K/I-97K module settings as a file, and can restore the settings from the file.

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Backup the configurations of I-87K modules

Step 1: Search the backplane I/O modules, after configuring the I-87K modules we can save all the I-87K I/O settings to a project, as Chapter 2 operation.

87082-S1-A-0-N81-0	ID	Address	Baud Rate	Checksum	Format	Status	Description	Comments
- 87013:S3:A:0:N81:0	87082	Slot1	115200	Disabled	N,8,1	Slot I/O	[DCON]2*Counter/Frequency + 2*DO	Supported
87028U:S4:A:0:N81:0	870281	Slot4	115200	Disabled	N.8,1	Slot I/O	[DCON]4*AO (V)	Supported
8050:55:-:-:API	8050	Slot5	-	-	-	Slot I/O	[API]16*Universal Digital I/O	Supported
8014:S7:-:-:API	8046	Slot6		-		Slot I/O	[API]16*DI	Supported
	8014	Slot7	-	-	-	Slot I/O	[API]8/16*AI (mA,mV,V)	Supported
	87028U Firmware[A20	1]						×
	Configuration AO	Host WDT Co	mmands Log Su	mmary About				
	Protocol (INIT*)	DCON	*					
	Address	0	÷ [00H]					
	Baud Rate (INIT*)	115200						
	Parity (INIT*)	N,8,1	-					
	Checksum (INIT*)	Disabled	•					
	Analog Format	2's Complement	nt Form 🔻					

Note: When save searched serial I/O settings to the path search\project\ folder, it will also save another copy to auto_config\ folder at the same time, then we can use this file to restore the I-87K I/O configurations.

COM1:Backplane:*		ID	Addross	Raud Pate	Chacksum	Format	Status	Descrit	ation	Common
		87082 87013 87028U 8050 8046	Slot1 Slot3 Slot4 Slot5 Slot6	115200 115200 115200 - -	Disabled Disabled Disabled	N,8,1 N,8,1 N,8,1 -	Slot I/O Slot I/O Slot I/O Slot I/O Slot I/O	[DCON [DCON [DCON [DCON [API]1 [API]1	1]2*Counter/Frequency + 2*DO 1]4*AI (RTD) 1]8*AO (V) 6*Universal Digital I/O 6*DI	Support Support Support Support Support
		8014	Slot7	-	-	-	Slot I/O	[API]8	/16*AI (mA,mV,V)	Support
	Save As							— ×		
		« search)	project 🕨	application_1	ب +	Sean	ch application_1	Q		
	Organize 🔻	New fold	er				855	• 🔞		
	🗼 Downlo	ads 🔦	Name	^		Dat	e modified	Туре		
	📃 Recent F	Places	退 conf	ig		11/	1/2020 10:46 PM	File folder		
	 Libraries Docume Music Pictures Videos 	ents ≣	appli appli	ication_1		11/	2/2020 6:20 PM	Text Docum		
	P Computer 🏭 Computer 🏭 OS (C:)	.)								
	👊 Network	-	•					Þ		
Clear	File <u>n</u>	ame: appli	cation_1					•		
	Save as	tune						•		

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Restore th	Restore the I-87K settings from file.											
Step 1: Click	to	show the UI	of "Restore F	or Back	plane I-87K I/C)"						
		CMD			FAQ							
COM1:	Backplane:*	ID Address	Baud Rate Checks	um Format	Status De	escription						
	Restore For Backplane I-87K I/0	V										
	Conned I/O	ails of 1/0 Setting Confi	gured Result Command	s Log About	na details							
	87082 Slo	:1	-	Jetti	Show	Restore						
	Slo	:2	-		Show	Restore						
	87013 Slo	:3	-		Show	Restore						
	87028U Slo	:4	-		Show	Restore]					
	8050 Slo	:5 Parallel I/O.	No need to configure	e	Show	Restore						
	8046 Slo	:6 Parallel I/O.	No need to configure	e	Show	Restore]					
	8014 Slo	:7 Parallel I/O.	No need to configure	e	Show	Restore						
	Scan backplane I/O											
	Exit	Load cor	figured INI file									
	T:\Temp\DCON_Utility_Pro_PC\au	o_config\					1					

Note: For I-8K modules are configured by SDK in program, they don't have any commands. Step 2: To load the previous saved configure file from auto_config\ folder

Organize 🔻 New folder	i 🕂 🗖 🔞	
Favorites	Date modified Type	
Nesktop Config	11/1/2020 10:46 PM File folde	
Downloads	11/2/2020 6:20 PM Configur	atio
🔚 Recent Places 📃 readme	9/23/2013 5:23 PM Text Doct	im.
Computer Computer Cos CC:) Computer Cos CC: Computer	11/2/2020 11:05 PM Configur	110
File <u>n</u> ame: application_1	III Vite Cancel	• •

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Step 3: After loading the project setting file, if the configuration is correct, the originally disabled										
"Show" and	"Restore" functions	will becor	me enabled.							
Click "Show'	" to view the detaile	d informat	tion of I/O se	ttings.						
Click "Resto	Click "Restore" Restore the configuration of the I/O module to the setting content of the project									
file.										

Canad I/O	Clat	Configured Status	Catting dataile	
Scaned I/O	Slot 1	Configured Status	Setting details	
0/002	500.1	-	Show	Restore
	Slot:2	12	Show	Restore
87013	Slot:3	-	Show	Restore
87028U	Slot:4		Show	Restore
8050	Slot:5	Parallel I/O. No need to configure	Show	Restore
8046	Slot:6	Parallel I/O. No need to configure	Show	Restore
8014	Slot:7	Parallel I/O. No need to configure	Show	Restore
store For Backplan	e I-87K J/O			
		Velim Ilicanion		
NPUT_MODE = CI OW_TRIGGER_LE IIGH_TRIGGER_LE	H:0 Non-Isolat VEL = 0.8V VEL = 2.4V	ed, CH:1 Non-Isolated		
NPUT_MODE = Ci OW_TRIGGER_LE IIGH_TRIGGER_LE Restore For Backplan Restore Configura	e I-87K I/O tion Details of	I/O Setting Configured Result Commands Log	About	
NPUT_MODE = CI OW_TRIGGER_LE HIGH_TRIGGER_LE Restore For Backplan Restore Configura Scaned I/O	e1-87K 1/0 tion Details of Set = 2.4V e1-87K 1/0 Details of Slot	I/O Setting Configured Result Commands Log Configured Status	About Setting details	
NPUT_MODE = CI OW_TRIGGER_LE IGH_TRIGGER_LE Restore For Backplan Restore Configura Scaned I/O 87082	e1-87K1/O e1-87K1/O tion Details of Slot: 1	I/O Setting Configured Result Commands Log Configured Status	About Setting details	Restore
NPUT_MODE = Ci OW_TRIGGER_LE IIGH_TRIGGER_LE Restore For Backplan Restore Configura Scaned I/O 87082	e I-87K I/O e I-87K I/O E - 87K I/O E - 8	I/O Setting Configured Result Commands Log Configured Status	About Setting details Show Show	Restore
NPUT_MODE = CI OW_TRIGGER_LE IIGH_TRIGGER_LE Restore For Backplan Restore Configura Scaned I/O 87082 87013	e I-87K I/O tion Details of Slot: 1 Slot: 2 Slot: 3 Slot: 3	I/O Setting Configured Result Commands Log Configured Status	About Setting details Show Show	Restore Restore Restore
NPUT_MODE = CI OW_TRIGGER_LE IIGH_TRIGGER_LE Restore For Backplan Restore Configura Scaned I/O 87082 87013 87028U	e 1-87K I/O e 1-87K I/O tion Details of Slot: 1 Slot: 2 Slot: 3 Slot: 4	I/O Setting Configured Result Commands Log Configured Status	About Setting details Show Show Show Show Show Show	Restore Restore Restore Restore
NPUT_MODE = CI OW_TRIGGER_LE IIGH_TRIGGER_LE Restore For Backplan Restore Configura Scaned I/O 87082 87013 87028U 8050	e 1-87K 1/O e 1-87K 1/O tion Details of Slot: 1 Slot: 2 Slot: 3 Slot: 4 Slot: 5	I/O Setting Configured Result Commands Log Configured Status OK - OK OK Parallel I/O. No need to configure	About Setting details Show Show Show Show	Restore Restore Restore Restore Restore
NPUT_MODE = CI OW_TRIGGER_LE HIGH_TRIGGER_LE Scaned I/O 87082 87013 87028U 8050 8046	e1-87K J/O e1-87K J/O tion Details of Slot: 1 Slot: 2 Slot: 3 Slot: 4 Slot: 5 Slot: 6	I/O Setting Configured Result Commands Log Configured Status OK - OK Parallel I/O. No need to configure Parallel I/O. No need to configure	About Setting details Show Show Show Show Show	Restore Restore Restore Restore Restore Restore
NPUT_MODE = CI OW_TRIGGER_LE HIGH_TRIGGER_LE Scaned I/O 87082 87013 87028U 8050 8046 8014	el-87K I/O el-87K	I/O Setting Configured Result Commands Log Configured Status OK Parallel I/O. No need to configure Parallel I/O. No need to configure Parallel I/O. No need to configure	About Setting details Show Show Show Show Show Show	Restore Restore Restore Restore Restore Restore Restore Restore
NPUT_MODE = CI OW_TRIGGER_LE HIGH_TRIGGER_LE Scaned I/O 87082 87013 87028U 8050 8046 8014 Scan backplar	eI-87K I/O tion Details of Slot: 1 Slot: 2 Slot: 3 Slot: 3 Slot: 5 Slot: 5 Slot: 6 Slot: 7 me I/O	I/O Setting Configured Result Commands Log Configured Status OK - OK Parallel I/O. No need to configure Parallel I/O. No need to configure Parallel I/O. No need to configure	About Setting details Show Show Show Show Show Show Show	Restore Restore Restore Restore Restore Restore Restore

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a. If you use an old version of DCON Utility Pro (version lower than V4.0.0.1) to save the ini file of the old configuration, it can also use the file to restore the I-87K settings.

Note: The old version of the ini file is only for a single module, the new version is for all Slot

modules

Restore For B	ackplane I-87K	I/O							23
Restore Co	onfiguration [Details of I/(O Setting Cor	nfigured Result Comm	hands Log Abo	out			
Scaned	I/O	Slot	Con	figured Status	S	etting details			
87082	S	lot:1		-	[Show	Re	estore	
	S	lot:2		-	[Show	Re	estore	
87013	S	lot:3		5 7 31	[Show	Re	estore	
87028	J S	lot:4		-	[Show	Re	estore	
8050	Open						×	store	
8046		🍌 « DCON	N_Utility_Pro_PC	C ▶ auto_config ▶	- 4- ∫	earch auto_config	P	store	
8014	Organize 🔻	 New f 	older					store	
	🔶 Favorit	tes	Name			Date modified	Туре		
Scan t	Desk	top	in cont	ig		11/1/2020 10:46 PM	File folder		
	Berg	nioads	appi	ication_1		11/2/2020 6:20 PM			
	E Rece	ITL Places	Fead	702911		9/23/2013 5:23 PIVI	Configuratio		
	🗎 Librari	es.	· 34_0	70280		11/2/2020 11:05 PW	Configuratio		
	Docu	uments	=						
	J Musi	ic							
EXI	E Pictu	Ires							
T:\Temp\DCO	Vide	os							.d

Restore Configurat	ion Details of I/O	Setting Configured Result Command	s Log About	
Scaned I/O	Slot	Configured Status	Setting details	
87082	Slot:1	-	Show	Restore
	Slot:2	-	Show	Restore
87013	Slot:3	1	Show	Restore
87028U	Slot:4	ОК	Show	Restore
8050	Slot:5	7	Show	Restore
8046	Slot:6	7	Show	Restore
8014	Slot:7	-	Show	Restore
Scan backplan	e I/O	Load configured INI file		
LAIC		2000 connigated intrine		
Temp\DCON Utility P	ro_PC\auto_config\			

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uthor	Martin/Ann	a Versi	ion	1.0.0	Date	2019/08/13	Page	6/2				
Some 1. The J 2. Inser 3. The o	error condition pre-existing I/ rt a new mod existing I/O is	ons may occu 'O is replaced ule into the e removed. (Se	ur. d by empt ee ca	another new cy slot. (See ca ase slot 3)	I/O. (Se ase slot	ee case slot 1 / sl 2)	ot 6)					
Restore For Bac	kplane I-87K I/O	T						×				
Restore Cont	figuration Details of	of I/O Setting Cont	figured	d Result Command	is Log Abo	out						
Scaned I/	O Slot	Conf	figure	ed Status	S	etting details						
87018	Slot:1	87018 is not	corre	ect module[8708	32]	Show	Res	store				
87013	Slot:2	87013 modul	e sca	nned in empty s	lot	Show	Res	store				
	Slot:3	Can not f	find r	module 87013	[Show	Res	store				
87028U	Slot:4		-		[Show	Res	store				
8050	Slot:5	Parallel I/O.	No r	need to configur	e	Show	Res	store				
87017Z	87017Z Slot:6 87017Z is not correct module[8046] Show						Restore					
8014	Slot:7	Res	store									
Exit		Load co	onfigur	ed INI file]						
			S Co	., Ltd. Technic	cal docu	iment						