# aw!selink

# *IPP-3100 Network DI/DO Control Module*



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# CHAPTER 1 GETTING STARTED

IPP-3100 Network Control Module supports the current stable version of the browser and the version that preceded it. For example, Internet Explorer on Windows, Microsoft Edge on Windows 10, Firefox on Windows, Safari on Mac OS X, Chrome on Windows. IPP-3100 features 16 channels DI, 8 channels DO and one RS-232 or RS-485 (select by setting) output. IPP-3100 provides a web interface to remote control "IPP Link" network include configuration, scheduling, setting event function and device update. This chapter includes information about how to configure and manage your IPP-3100 Network Control Module via a website interface.

## SETUP IPP-3100

Before use IPP-3100 web interface to manage setting operation, please make sure IPP-3100 is installed on network correctly, and every PC or Device on this network can access IPP-3100 via the web browser.

Setup note:

- 1. Ensure that your network interface card (NIC) is operational
- 2. Supports the TCP/IP protocol.
- 3. Confirm IPP-3100 power and system LED on.
- 4. Ethernet Cable connects IPP-3100 to computer or device.
- 5. The IPP-3100 default IP address is 192.168.1.127.
- 6. Change your computer or device IP address to 192.168.1.x. (x from 1 to 254, except 127)
- 7. Use web browser to access IPP Management App.



#### ACCESS WEB PAGE

Follow as bellow step to access management page of IPP-3100.

#### Step1 Set IP address of network adapter on PC



**Network Connections** 

**IPv4** Properties

Step2 Open web browser and set IP address at url to enter login page. Default IP is 192.168.1.127.Enter Name & Password to access IPP-3100 web page. Default Name/Password is admin/admin.

1		Huang	P PP Mensoement App	
IPP Management App	×		← → C ① 192.168.1.127	Q 7 🖈 🚺 🗄
	Name admin Password  Login		Encyvu Bata We Bert Brain Autocator Patiproduc 001 002 003 003 003 004 005 005 005 005 005 005 005 005 005	Note ID: 6. Model Name, IP-3100
	Login Page		IPP-3100 W	eb Page
IPP-3100	Network DI/DO Control Mo	odule		
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product specificat	ions are subject to change without n	Juces		July 24, 2017 Ver.

# **CHAPTER 2 STATUS VIEW**



# RELAY OUTPUT CONTROL

IPP-3100 has 8 channels relay output. Display status of relay output channel, if the output state is ON, the status is Green. If the output state is OFF, the status is White.

	Status View	Event	System	Authorization			
	Relay Outr DO DO DO DO DO DO DO DO	<b>but</b> 1 2 3 4 5 6 7 8					
IPP-3100	Network DI/DO	Control N	lodule		 		5
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# DIGITAL INPUT MONITOR

IPP-3100 has 16 channels digital input. Display status of digital input channel, if the input state is open, the status is OFF (White). If the input state is short, the status is ON (Green). Monitor response time about 1sec.

Digital Input(only show)	
DI 1	
DI 2	
DI 3	
DI 4	
DI 5	
DI 6	
DI 7	
DI 8	
DI 9	
DI 10	
DI 11	
DI 12	
DI 13	
DI 14	
DI 15	
DI 16	

#### SERIAL DATA OUTPUT

IPP-3100 Serial Port can send text data or [hex] code at Status page (Max. 100bytes). Press the Send button, the data will be sent. Serial Port baud rate can be changed at System page. Default mode is RS-232, baud rate is 115200bps. Serial Port will be different by Interface that can be changed by System-Serial page, please refer <u>Serial</u> section.





# CHAPTER 3 EVENT

Each IPP series offers EVENT function that is easy to transform different scenes. In EVENT page, user can set different trigger condition and get device action when trigger active. The EVENT Schedule function can help user execute EVENT automatically with timing. Each DI has default action on device, please disable <u>DI Action</u> at System-DI Config page when DI set to EVENT trigger.

Example:

A Living room connects with IPP product as bellow picture. IPP-5206 controls lightings and fan of living room. IPP-5303 controls blinds curtain of windows. IPP-3100 is EVENT trigger source with switch.

Scene 1: Outing scene Lights are off. Blinds curtain is closed. Fan is power off. Scenes EVENT Trigger: SW1 of IPP-3100 Scenes EVENT Executor: IPP-5206 Light off and fan is power off. IPP-5303 Blinds curtain comes down.



IPP-3100

Network DI/DO Control Module

# IPP-3100 Network DI/DO Control Module

#### Scene 2: Home scenes

Lights are on. Blinds curtain is open. Fan is power on.

Scenes EVENT Trigger: SW2 of IPP-3100

Scenes EVENT Executor: IPP-5206 Light on and fan is power on, IPP-5303 Blinds curtain goes up.



IPP-5303

IPP-3100

Network DI/DO Control Module

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#### **EVENT PAGE**

Event page provides new event trigger and new event schedule to create event. There are 3 status pages to show event trigger, event executor and event schedule of current device. Please refer as follow sections to understand event setting.

192.168.1.127						7
ngy	Vu			Chi Node IPP-5	bice IPP-Li ID: 30, Mo 303	nk Device del Name
Status View	Event System					
		• New Event Trigger	• New	Event	Schedule	
Event Trigger	Event Executor Event Sche	edule				
		X Delete all	0	Refresl	1 List	
Event ID	Trigger Interface		Main	itain		
A0000001	DI - 1 : On		Q	4	×	
A0000002	DI - 2 : On		Q	4	×	
A0000003	DI - 3 : On		Q	4	×	
E1D3A000	DI - 6 : On		Q	4	×	
Q : Search releat ∮ : Simulate X : Delete	ied node					

# NEW AN EVENT

ress	O New E	to e	nter sett	ing windo	ow and creat	e a new event trigg	er.	
		Status View	Event	System				
					(	♦ New Event Trigger	• New Event Schedule	
		Event Trigg	er Even	t Executor	Event Schedule			
						🗙 Delete all	C Refresh List	



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#### NEW AN EVENT TRIGGER

#### Event trigger setting window

0 0 132	.168.1.127	Choice IPP Link Device
ng	Event ID  System Assign Customize Input Max:4Byte  Event triager	Model Name
	DI • Click	e
E	IPP-5303:30 <ul> <li>New Action</li> <li>Remove Action</li> </ul>	
Q		

# Event ID:

System Assign means assign Event ID by system. Customize Input provide 8 characters for user assign a serial number for Event ID.

Event ID		
System Assign	Customize Input	

# Event trigger:

1st dropdown option can select trigger source of current device for event trigger source.

DI	•	DI 1	•	On	•
DI					
execute action					

2nd dropdown option can select trigger source channel of current device for event trigger source.

E∨ent trigger			
DI •	DI 1	•	On •
	DI 1		
Execute action	DI 2		
	013		

3rd dropdown option can select trigger action of current device for event trigger source. This option will be different by DI Type that can be changed by System-DI Config page, please refer <u>DI type definition</u> section.

Event trigger			
DI	• DI 1	▼ On	۲
Et.		On	
Execute actio	'n	Off	
		Change	

Execute action

#### Execute action:

Dropdown option can select event executor of all device in IPP-Link network for event trigger source, devices must connect and working at the same IPP-Link network. Option name is [Product name: Node ID].

Press New Action button to add new event executor and enter setting page, one node ID has one page. Add more event executor in one event trigger to make multi control of scenes.

Press Remove Action button to remove executor of current setting page. Please press Save to save event after setting.

IPP-2603:60	•	New Action	Remove Action	
IPP-5206:27				
IPP-5206:28				
IPP-5206:29				
IPP-5206:30				
IPP-5206:31				
IPP-5206:32				
IPP-5206:33				
IPP-5206:34				
IPP-5206:35				
IPP-5206:36				
IPP-5206:37				
IPP-5206:38				
IPP-5206:39				
IPP-5206:40				
IPP-5206:41				
IPP-5206:42				
IPP-5303:43				
IPD-5206:45				
IN 5200.45				



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# NEW AN EXECUTOR ACTION FOR IPP-3100

Continue form previous section, when select an IPP-3100 device to new action, user can see IPP-3100 executor action setting page as bellow picture.

	E∨ent ID						
	🖲 System	Assign 🔍 Customize Ir	put Max:4Byte				
	Event trigg	ger					
	DI	• DI 1	• On		,	,	
	Execute ad	ction					
DO Action Select		• New Actio	Remove Act	ion			
R	IPP-3100 II	00	,			1	
	Relay Out	put	DOI Delau	~			Action executed delay time
	DO1	Unchange V	DO1 Delay		Sec		
	DO2	Unchange 🔹	DO2 Delay	0	sec		
	DO3	Unchange 🔹	DO3 Delay 0	D	sec		
	DO4	Unchange •	DO4 Delay	D	sec		
	DO5	Unchange 🔹	DO5 Delay	C	sec		
	DO6	Unchange 🔹	DO6 Delay	D	sec		
	DO7	Unchange •	DO7 Delay	D	sec		
	DO8	Unchange •	DO8 Delay	D	sec		
RS-232 Output	RS-232						
	Output RS	6-232 command	RS-232 Delay	0	sec		
			S	Save	Cance	el	
	L						

# DO Action Select:

Dropdown option offer 4 actions of IPP-3100, there are Unchange, ON, OFF,	DO1	Unchange 🔻
Reverse. "Unchange" for no action, "ON" for DO short, "OFF" for DO	000	Unchange
open, "Reverse" for DO status reverses. The physical actions define as bellow.	DOZ	OFE
	DO3	Reverse

Action	Terminal block	Terminal block Action
ON		DO short
OFF	 DO 1	DO open



# RS-232 Output:

 RS-232

 Output RS-232 command

 RS-232 Delay

 0

IPP-3100 provides a RS-232 output. Edit the text box will be sending a string when event trigger execute.

# Action executed delay time:

User can set delay time for each action executor. The action will be executed after delay time when event trigger active. Maximum delay time is 60sec. Delay time box will enable when action selected, but it will disable when action select to Unchange.

IPP-3100 ID	0				
Relay Outp	out				
D01	Unchange 🔹	DO1 Delay 0 sec			
DO2	Unchange •	DO2 Delay 0 sec			
DO3	Unchange 🔹	DO3 Delay 0 sec			
D04	Unchange 🔹	DO4 Delay 0 sec			
DO5	Unchange •	DO5 Delay 0 sec			
D06	Unchange •	DO6 Delay 0 sec			
DO7	Unchange 🔹	DO7 Delay 0 sec			
DO8	Unchange •	DO8 Delay 0 sec			
RS-232					
Output RS-232 command RS-232 Delay 0 sec					
		Save Cancel			

# CREATE AN EVENT STEP BY STEP

Curtains connect with IPP product as bellow picture.



Design Event of scenes as bellow.

EVENT	EVENT ID	Trigger IPP-3100	Yellow LED IPP-3100	Green LED IPP-3100	Blinds of Living Room IPP-5303 ID:30	Blinds of Bed Room IPP-5303 ID:30
Scene A	A000001	Button A	ON	OFF	Open	Close
Scene B	A000002	Button B	OFF	ON	Close	Open

R

## Create a new Event for Scene A

Step1 Enter IPP-3100 System Page and DI config setting.

Step2 Check DI action all disabled.

<u>Comment:</u> Before use EVENT function, please disable DI action for trigger channel.

Step3 Chang DI type to type 2.

<u>Comment:</u> Button A and B are connect to IPP-3100 DI. IPP-3100 DI default type is type 4 – switch type, so we need to change DI Type to type 2 – button type first. Detail DI config setting please refer <u>DI config</u> section.

Em	aww	Choice IPP-Link Device
-11	gyvu	Node ID: 0, Model Name: IPP -3100
Sta	atus View Ever System Authorization	
	System Reboot System Date/Time : 2017-06-	28 14:15:40 Sync Date/Time
		- In the second
	Naming Preterences DO Contig DI Contig Pirmware u Serial	update IP Network
	DI Config	
	DI CH	
	2	
	DI Defult Action	
	Disable •	
	Type2 ▼ Peak (OFF→ON→OFF)	
	Save Refresh	

Step4 Change to IPP-3100 EVENT Page and click

• New Event Trigger

<u>Comment:</u> Event will be triggered by buttons that connect to IPP-3100 DI, so we must be set EVENT at IPP-3100.



Step5 Assign ID: A0000001 for EVENT.



Step6 Select trigger source channel and action. Comment: For this example, Scene A button connects to DI 1.

Event trigge	er			
DI	• DI 1	• Click	•	

Step7 Select IPP-3100:0 and press New Action to set IPP-3100's EVENT action.

<u>Comment:</u> For this example, LED and LED power connect to DO terminal block, ON is DO short, LED ON. OFF is DO open, LED OFF. For scene A, DO1 LED shall be ON.



IPP-5	303:30	New A	Remove A	ction	
IPP-310					
DO1		Ŧ	DO1 Delay	0	sec
D02	OFF	•	DO2 Delay	0	sec
D03	Unchang	je T	DO3 Delay	0	sec
D04	Unchang	je •	DO4 Delay	0	sec
DO5	Unchang	je T	DO5 Delay	0	sec
D06	Unchang	je T	DO6 Delay	0	sec
D07	Unchang	je '	DO7 Delay	0	sec

Step8	Select IPP-5303:30 and press New Action to	E
	set IPP-5303's EVENT action.	
	Comment: For this example, blinds of living	
	room connect to CH2, for scene A, CH2	

shall be UP.

Execute a	ction	
IPP-530	3:31 • New A	Action Remove Action
IPP-3100 II	D 0 IPP-5303 ID 30	
Curtain		
CH1	Unchange •	DO1 Delay 0 sec
CH2	UP •	DO2 Delay 0 sec
CH3	Unchange 🔹	DO3 Delay 0 sec
RS-232		
Output R	S-232 command	RS-232 Delay 0 sec
		Save Cancel

Step9 Select IPP-5303:31 and press New Action to set IPP-5303's EVENT action. <u>Comment:</u> For this example, blinds of bed room connect to CH3, for scene A, CH3 shall be DOWN.

Step10 Before save EVENT, click device tag can edit event action again. Press Save to save EVENT A0000001.

	v Ne	w Action Remove Action
IPP-3100	D 0 IPP-5303 ID	30 IPP-5303 ID 31
CH1 CH2 CH3	Unchange   Unchange  DOWN	DO1 Delay 0 sec DO2 Delay 0 sec DO3 Delay 0 sec
RS-232 Output F	RS-232 command	RS-232 Delay 0 sec
		Save Cancel

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# Create a new Event for Scene B

Step11 Click • New Event Trigger for add next EVENT.

Step12 Assign ID: A0000002 for EVENT.

St System Assign Customize Input A0000002

## Step13 Select trigger source channel and action.

Comment: For this example, Scene B button connects to DI 2.

	Event trigge	Event trigger					
	DI	• DI 2	• Click	<b>T</b>			
2100	Notwork DI/DO Con	tual Madula			1/		

# IPP-3100 Network DI/DO Control Module

Step14 Select IPP-3100:0 and press New Action to set IPP-3100's EVENT action. Comment: For this example, LED and LED

<u>comment:</u> For this example, LED and LED power connect to DO terminal block, ON is DO short, LED ON. OFF is DO open, LED OFF. For scene B, DO2 LED shall be ON.



Step15 Select IPP-5303:30 and press New Action to set IPP-5303's EVENT action.

<u>Comment:</u> For this example, blinds of living room connect to CH2, for scene B, CH2 shall be DOWN.

Execute a	ction									
IPP-530	IPP-5303:30         •         New Action         Remove Action									
IPP-3100 ID 0										
Relay Out	tput									
DO1	OFF •	DO1 Delay 0 sec								
DO2	ON •	DO2 Delay 0 sec								
DO3	Unchange 🔹	DO3 Delay 0 sec								
DO4	Unchange 🔹	DO4 Delay 0 sec								
DO5	Unchange 🔹	DO5 Delay 0 sec								
DO6	Unchange	DO6 Delay 0 sec								
D07	Unchange	DO7 Delay 0 sec								
		Save Cancel								

IPP-530	3:31 • New	Action Remove Action
IPP-3100	ID 0 IPP-5303 ID 30	
Curtain		
CH1	Unchange 🔻	DO1 Delay 0 sec
CH2	DOWN •	DO2 Delay 0 sec
CH3	Unchange 🔻	DO3 Delay 0 sec
RS-232		
Output F	RS-232 command	RS-232 Delay 0 sec
		Save Cancel

Step16 Select IPP-5303:31 and press New Action to set IPP-5303's EVENT action.

<u>Comment:</u> For this example, blinds of bed room connect to CH3, for scene B, CH3 shall be UP.

Step17 Before save EVENT, click device tag can edit event action again. Press Save to save EVENT A0000002.

Execute ac	tion ▼ New A	ction Remove A	ction
IPP-3100 ID	0 IPP-5303 ID 30	IPP-5303 ID 31	
Curtain			
CH1	Unchange 🔻	DO1 Delay	0 sec
CH2	Unchange 🔻	DO2 Delay	0 sec
CH3	UP •	DO3 Delay	0 sec
RS-232			
Output RS	-232 command	RS-232 Delay	y 0 sec
			Save Cancel

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# IPP-3100 Network DI/DO Control Module

S	tatus View	Event	System	Authorization					
					• New Ev	ent Trigger	• Nev	v Even	t Schedule
	Event Trigger	Even	t Executor	Event Schedule					
					3	Celete all	C	Refre	sh List
	Event ID		Trigger Int	erface			Main	tain	
	A000001		DI - 1 : On				Q	4	×
	A0000002		DI - 2 : On				Q	4	×

## NEW AN EVENT SCHEDULE

The Event also can be triggered by Event schedule. Once the set time has passed, the event will automatically active and it will repeat continuously by schedule. EVENT schedule and EVENT trigger must be set at the same device. Press ONEW EVENT Schedule to enter setting window and create a new event schedule.

	Status View E	vent System					
			[	• New Event Trigger	• New Event Schedu	le	
	Event Trigger	Event Executor	Event Schedule				
				X Delete all	2 Refresh List		
IPP-3100	Network DI/D	OO Control Modu	ule				18
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Networ	k DI/DO Control M	odule
EVENT SCHEDULE SETTING		
When click • New Event Schedule, it will be show the Event schedule setting window.		
Execution time Hour [00-23] Minute 00-59 Second 00-59 Execution weekday Monday Tuesday Wednesday Thursday Friday Saturday Sunday Execute Event ID A0000001		
Save Cancel		
Execution time: Set a timing to execute EVENT, enter hour, minute, second for detail.		
St Execution time		
Hour 00-23 Minute 00-59 Second 00-59		
Execution weekday: Set what days of week EVENT schedule should be active.		
Execution weekday		
<ul> <li>✓ Monday </li> <li>✓ Tuesday </li> <li>✓ Wednesday </li> <li>✓ Thursday</li> <li>✓ Friday </li> <li>✓ Saturday </li> <li>✓ Sunday</li> </ul>		
Execute Event ID: Set EVENT ID. Once the set time has passed, this EVENT action will be active by EVENT	schedule.	
Execute Event ID		
A0000001		
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					Network	< DI/DO Con	IPP-310 trol Modul
ENT LIS	ST						
ESS C Refres	will refresh li	st to show last e	vent trigger	s. Press X Delete	to delete al	l event trigge	er and actio
atus View         Event           Event Trigger         E           Event ID         A0000001           A0000003         E           Data         SDA61720           Q : Search releated not         Simulate           X : Delete         Yearch	System  Event Executor Event Schedule  Trigger Interface  DI - 1 : On  DI - 2 : On  DI - 3 : On  DI - 3 : On  DI - 1 : On  de  de	New Event Trigger New X Delete all X Delete all A A A A A A A A A A A A A A A A A A	Event Schedule Refresh List in 7 X 7 X 7 X 7 X 7 X 7 X 7 X	Maint Press № info. Q Se f Exe ➤ De	<u>ain:</u> laintain item to mai arch and show relat ecute EVENT action lete EVENT trigger a	ntain event and ed device ID to for simulate. and Executor ac	l show event this EVENT. tion.
	EVENT Trig	ger List					
atus View Event	EVENT Trigg	ger List		Status View Event	System	O Vice French Triang	
atus View Event Event Trigger E	EVENT Trigg	ger List • New Event Trigger • New J	Event Schedule	Status View Event	System	New Event Trigger	New Event Schedule
stus View Event Event Trigger E	EVENT Trigg	ger List New Event Trigger New I New Delete all	Event Schedule Refresh List	Status View Event	System	• New Event Trigger	• New Event Schedul C Refresh List
atus View Event Event Trigger E Event ID	EVENT Trigg	ger List New Event Trigger New I Sector Action Content of the sector Acti	Event Schedule Refresh List	Status View Event Event Trigger Event Event ID A0000001	System Int Executor Event Schedule Schedule Execution time (11:30:0)	• New Event Trigger	© New Event Schedule © Refresh List Maintain
tus View Event Event Trigger E Event ID A0000001	EVENT Trigg	ger List New Event Trigger New I X Delete all 21 Mainta Q	Event Schedule Refresh List	Status View Event	System Int Executor Event Schedule Schedule Execution time (11:30:0) Execution weekday (1234567) Evention time (10:0)	New Event Trigger	New Event Schedul Refresh List Maintain Q 1 ×
tus View Event Event Trigger E Event ID A0000001	EVENT Trigg         System         went Executor       Event Schedule         Action Interface         CH - 2 : UP         CH - 2 : DOWN         CH - 1 : STOP	ger List New Event Trigger New I Ne	Event Schedule Refresh List In X	Status View     Event       Event Trigger     Event ID       A0000001     A0000002	System Int Executor Event Schedule Schedule Execution time (11:30:0) Execution time (11:34567) Execution time (19:0.0) Executi	New Event Trigger	New Event Schedul C Refresh List Maintain Q 4 X Q 4 X
Event Trigger E Event ID A0000002	System         Vent Executor       Event Schedule         Action Interface         CH - 2 : UP         CH - 2 : DOWN         CH - 1 : STOP         CH - 2 : STOP	ger List New Event Trigger New I State St	Event Schedule Refresh List in X	Status View     Event       Event Trigger     Event       Event ID     A0000001       A0000002     Image: Constraint of the second seco	System Executor Event Schedule Schedule Execution time (11:30:0) Execution weekday (1234567) Execution weekday (-2,4,6,)	• New Event Trigger	<ul> <li>New Event Schedul</li> <li>Refresh List</li> <li>Maintain</li> <li>Q f ×</li> <li>Q f ×</li> </ul>
atus View Event Event Trigger E A0000001 A0000002	System         System         Vent Executor       Event Schedule         Action Interface         CH - 2 : UP         CH - 2 : DOWN         CH - 1 : STOP         CH - 2 : STOP         CH - 3 : STOP	ger List New Event Trigger New I X Delete all Mainta Q Q	Event Schedule Refresh List in X X	Status View Event Event Trigger Event ID A0000001 A0000002 Q : Search releated node	System Int Executor Event Schedule Schedule Execution time (11:30.0) Execution weekday (1234567) Execution time (19:0.0) Execution weekday (_2_4_6_)	New Event Trigger	<ul> <li>New Event Schedul</li> <li>Refresh List</li> <li>Maintain</li> <li>A f ×</li> <li>A f ×</li> </ul>
atus View Event Event Trigger E Event ID A0000001 A0000003	System         System         Vent Executor       Event Schedule         Action Interface         CH - 2 : UP         CH - 2 : DOWN         CH - 2 : STOP         CH - 3 : STOP         CH - 3 : STOP         RS-232 : HEX(53544f5020435552)	ger List New Event Trigger New I X Delete all 2 I Mainta Q 5441494e)	Event Schedule Refresh List in X X	Status View Event Event Trigger Event ID A0000001 A0000002 Q : Search releated node Y : Simulate Event Betet	System Int Executor Event Schedule Schedule Execution time (11:30.0) Execution weekday (12:4567) Execution weekday (.2_4_6_)	New Event Trigger	New Event Schedul Refresh List Maintain Q 1 X Q 1 X
ttus View Event Event Trigger E A0000001 A0000002 E1D3A000	EVENT Trigg           System           Vent Executor           Event Schedule           Action Interface           CH - 2 : UP           CH - 2 : UP           CH - 2 : DOWN           CH - 1 : STOP           CH - 2 : STOP           CH - 3 : STOP           CH - 3 : STOP           CH - 1 : STOP           CH - 1 : STOP	ger List New Event Trigger New I Ne	Event Schedule Refreah List In X X	Status View Event Event Trigger Event A0000001 A0000002 Q : Search releated node f : Simulate X : Delete	System Int Executor Event Schedule Schedule Execution time (11:30:0) Execution time (11:30:0) Execution time (19:0:0) Execution time (19:0:0) Execution weekday (_2_4_6_)	• New Event Trigger	<ul> <li>New Event Schedul</li> <li>Refresh List</li> <li>Maintain</li> <li>Q 4 ×</li> <li>Q 4 ×</li> </ul>
atus View Event Event Trigger E A0000001 A0000002 E1D3A000 € Search releated nod Simulate C Delete	EVENT Trigg           System           Vent Executor         Event Schedule           Action Interface           CH - 2 : UP           CH - 2 : UP           CH - 2 : DOWN           CH - 2 : STOP           CH - 3 : STOP           RS-232 : HEX(53544f5020435552)           CH - 1 : STOP	ger List New Event Trigger New I Ne	Event Schedule Refreah List In X X	Status View Event Event Trigger Event A0000001 A0000002 Q : Search releated node f : Simulate X : Delete	System ent Executor Event Schedule Schedule Execution time (11:30:0) Execution weekday (1234567) Execution weekday (2,2,4,6,) EVENT Schedule	• New Event Trigger	<ul> <li>New Event Schedul</li> <li>Refresh List</li> <li>Maintain</li> <li>Q f ×</li> <li>Q f ×</li> </ul>
atus View Event Event Trigger E Event ID A0000001 A0000002 E1D3A000 E1D3A000	EVENT Trigg	ger List New Event Trigger New I Ne	Event Schedule Refresh List in X X X	Status View Event Event Trigger Ew Event ID A0000001 A0000002 Q : Search releated node ∳ : Simulate ★ : Delete	System Int Executor Event Schedule Schedule Execution time (11:30.0) Execution weekday (12:4567) Execution weekday (2:4.6.) EVENT Schedule EVENT Schedule	• New Event Trigger	<ul> <li>New Event Schedul</li> <li>C Refresh List</li> <li>Maintain</li> <li>Q 4 ×</li> <li>Q 4 ×</li> </ul>

# IPP-3100 Network DI/DO Control Module

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# **CHAPTER 4 SYSTEM SETTING**

(i) - 0 -IPP-3100 provides system setting, firmware update 🗅 IPP Management App 🛛 🗙 → C ① 192.168.1.127 4 7 \star 🔿 : and information at System page. There are naming, EngyVu preferences, DO config, DI config, firmware update, IP Node ID: 0, Model Name: IPP-3100 Network, serial setting. Status View Event System Authorization Device Reset: Reset device System Date/Time : 2017-07-20 09:08:0 System Sync Date/T Naming Preferences DO Config DLC Firmware update IP Network Serial Device Name Sync Date / Time: Synchronize date and time of IPP- 🦛 DI Name 3100 and PC or mobile devices. DI1 DI2 DI3 DI4 D15 DI6 DI7 DI8 DI9 DI10 DI11

#### NAMING

Assign name of each interface by Naming page.

IPP-3100       0.04         DI Name       0.05         DI1 SenceA       0.06         DI2 SenceB       0.07         DI3 SenceC       0.08         DI4       D1 (SenceA)         DI6       D1 (SenceA)         DI7       D1 (SenceB)         DI7       D1 (SenceC)         DI8       D1 (SenceC)         DI8       D1 (SenceC)         DI9       D1 (SenceC)         DI9       D1 (SenceC)         DI9       D14	Naming Preferences DO Config DI Config Firmware update IP Network Serial Device Name	Relay Output DO 1 (Front Curtaion) DO 2 (Back Curtaion) DO 3
Dia       Digital Input(only show)         Di5       Di4         Di6       Di1 (SenceA)         Di7       Di3 (SenceC)         Di8       Di4         Di7       Di5 (SenceC)         Di8       Di4	PP-3100 DI Name DI1 SenceA DI2 SenceB DI3 SenceC DI4	DO 4 DO 5 DO 6 DO 7 DO 8
	DI5	Digital Input(only show) DI 1 (SenceA) DI 2 (SenceB) DI 3 (SenceC) DI 4



Preferences page show system information in here. There are parameters and system version for current device.

	eboot	S	ystem Date/T	me : 2017-07-19 1	5:06:24 Sync	Date/Ti
Naming	Preferences	DO Config	DI Config	Firmware update	IP Network	Seri
3. Unik	ey: 00:13:48:0	2:DF:B2				
4. Firm 4. Firm IP LO S2	ey: 00:13:48:0 ware version : D Srv version P AP Srv versi G Srv version E Srv version version 1.04	2:DF:B2 1.010 (build on 1.020 (bui 0.001 (build 0.002 (build	#1 Jun 9 20 ld #1 Jul 17 #1 Aug 3 20 #1 Oct 5 20	17 10:12:32) 2017 15:53:34) 15 17:05:52) 15 15:58:03)		

# DI CONFIG

Each DI channel can change configuration by DI config page, include DI action and DI type. Press Save to save setting after edit. Press Refresh to read setting of DI CH.

System R	eboot		System	Date/Time : 2017-07-	12 14:58:10	ync Date/Tim
Naming	Preferences	DO Config	DI Config	Firmware update	IP Network	Serial
DI Confi	g					
DLC	4					
	1					
DI De	efult Action					
Ena	ble 🔻					
DI Ty	pe					
Туре	94 ▼ Normal (0	ON/OFF)				
Sav	re Refresh					

# DI TYPE DEFINITION

IPP product series define DI type as below form. Each type can be signal trigger for IPP product action, the action such as digital output, relay output, dimmer control, curtain control...etc. DI can be used to connect with button, switch, digital input...etc. for different application. DI type can be change by configuration setting.

DI Type	Trigger Condition	Description
Type1	On -> Off / Off -> On	Status Change
Type2	Off -> On -> Off	Peak
Туре3	On -> Off -> On	Valley
Type4	On / Off	Normal
Type5	Short press / Long press	Press Button

IPP-3100 DI type default is Type 4, the function like as switch.

## DI ACTION DEFINITION

IPP-3100 DI action defines default device operation as below form.

DI CH	DI Action Type4	Default Output Action	DI CH	DI Action Type4	<b>Default Output Action</b>
	ON	No option		ON	No action
	OFF	No action	019	OFF	
	ON	No option		ON	No option
	OFF	INO action		OFF	NO action
	ON	No option		ON	No option
DI 3	OFF	INO action		OFF	NO action
	ON	No option	DI 12	ON	No action
DI 4	OFF	No action		OFF	
	ON	No option		ON	No option
015	OFF	INO action	0113	OFF	NO action
	ON	No option		ON	No action
DIG	OFF	No action	DI 14	OFF	
	ON	No option		ON	No action
	OFF	No action	DIIS	OFF	INU action
	ON	No option		ON	No action
8 וט	OFF	INO ACTION	סוום	OFF	ino action

Each DI has default action on device. Please disable DI Action when DI set to EVENT Trigger, otherwise device will do DI action and EVENT Executor action in the same time.



# IPP-3100 Network DI/DO Control Module

# DO CONFIG

DO config page can change DO configuration. Press	Status View Event System Authorization	
setting of DO start up action	System Reboot     System Date/Time : 2017-07-12 14:18:48     Sync Date       Naming     Preferences     DO Config     DI Config     Firmware update     IP Network     Seria       DO Config     U     DO Config     U     DO Config     U     DO Config	e/Time
DO start up action: The state of DO after IPP-3100 power on	DO start up action Last state	
DO START UP ACTION DEFINITION		
IPP-3100 DO start up action defines default device operation	on as below form.	
	DO start up action	

DO start up action DO	
Default state	All off
User state	Customize
Last state	The state before power off

DO start up action	
Last state 🔹	
Default state	
User state	
Last state	

User state: Customize operation as below.

DO on after power on DO off after power on Setting button to set action for customize	e. Press Save to save setting after edit.
System Reboot System Date/Time : 2017-07-17 11:38:16 Sync DaterTime Naming Preferences DO Config DI Config Firmware update IP Network Serial DO Config DO start up action User state  Setting Save Refresh	Naming       Preferences       DC co         DO Boot Mode       Setting         PO1_DO2          DO3_DO4          DO7_DO8          OK
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#### **IP NETWORK**

Set IP type (Static or DHCP) with network mode.

DHCP type: IP address will be assigned to the IPP-3100 from the network's DHCP server. In this mode, the default IP address will be replaced by the DHCP server.

Static type: IP address, Netmask & Gateway shall be determined by user. (Default type)

If it is over one IPP-3100 in the same network, please change ip network before use.

Status View Event	System A	authorization			
System Reboot		System Date	/Time : 2017-07-2	21 13:37:35	Sync Date/Time
Naming Preferen	ces DO Config	DI Config	Firmware update	IP Network	Serial
IP Network Setti	ng				
IP Туре	STATIC				
Host Name	IPP-3100				
IP	192.168.1.127				
Netmask	255.255.255.0				
Gateway	192.168.1.254				
Chaneg IP Netw	ork Setting				
IP Туре	🖲 Static 🔵 DHC	P			
Host Name	IPP-3100-01		]		
IP	192.168.2.100		]		
Netmask	255.255.255.0		]		
Gateway	192.168.2.1				
Save					

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APTER 5	AUTH	IORIZA	TION		
w user to c	hange th	e login pa	ssword from A	uthorization page	
		e legni pu		allonzation page.	
s 🔮 but	ton and e	enter a nev	v password.		
Status View	Event	System	Authorization		
		-,	Addition		
🗷 Enable W	eb Conso	le Authoriza	tion		
Save					
System A	ccess				
Action		I	user	password	
a construction of the second s		1	admin	**********	

# APPENDIX

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