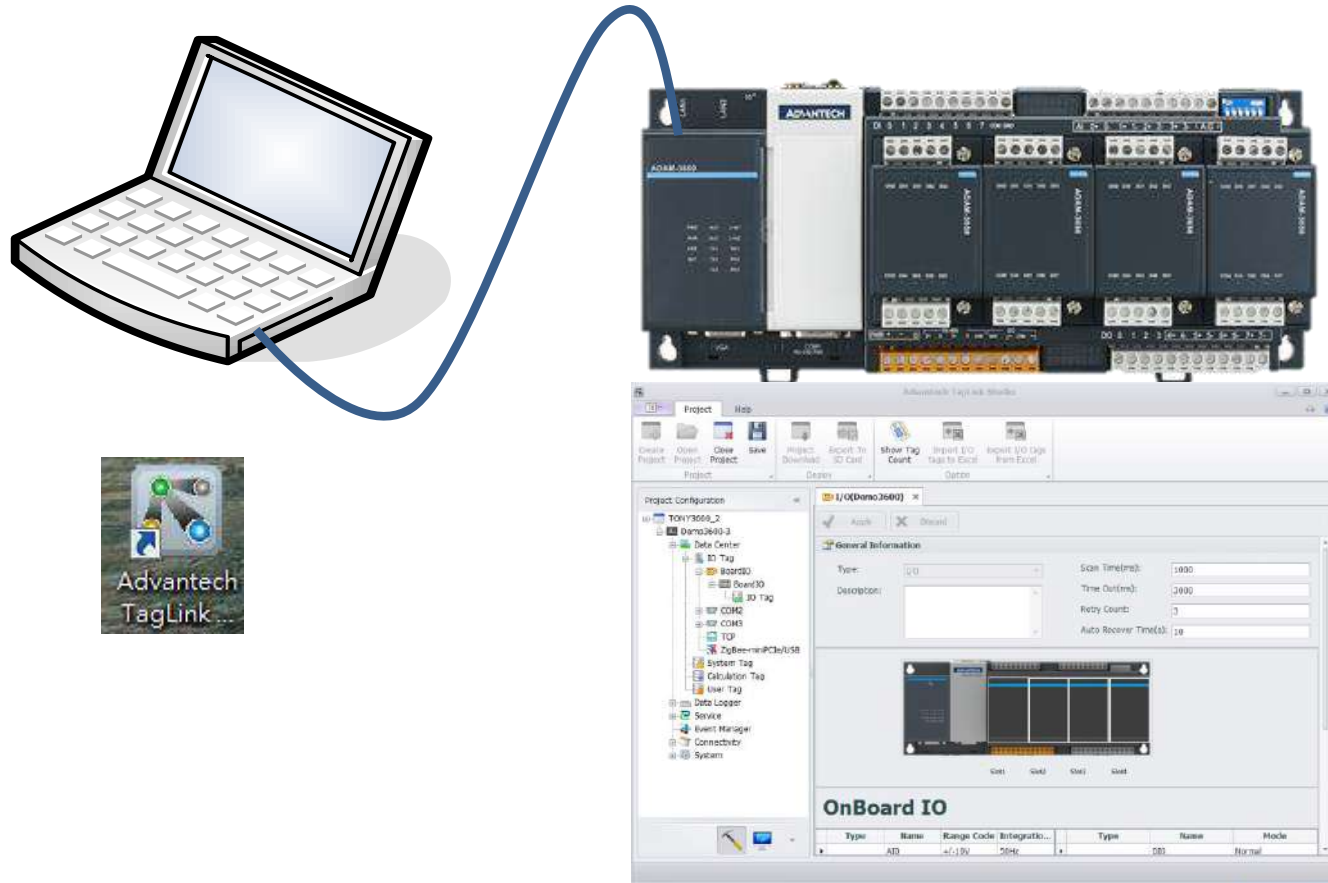


1. Search ADAM-3600

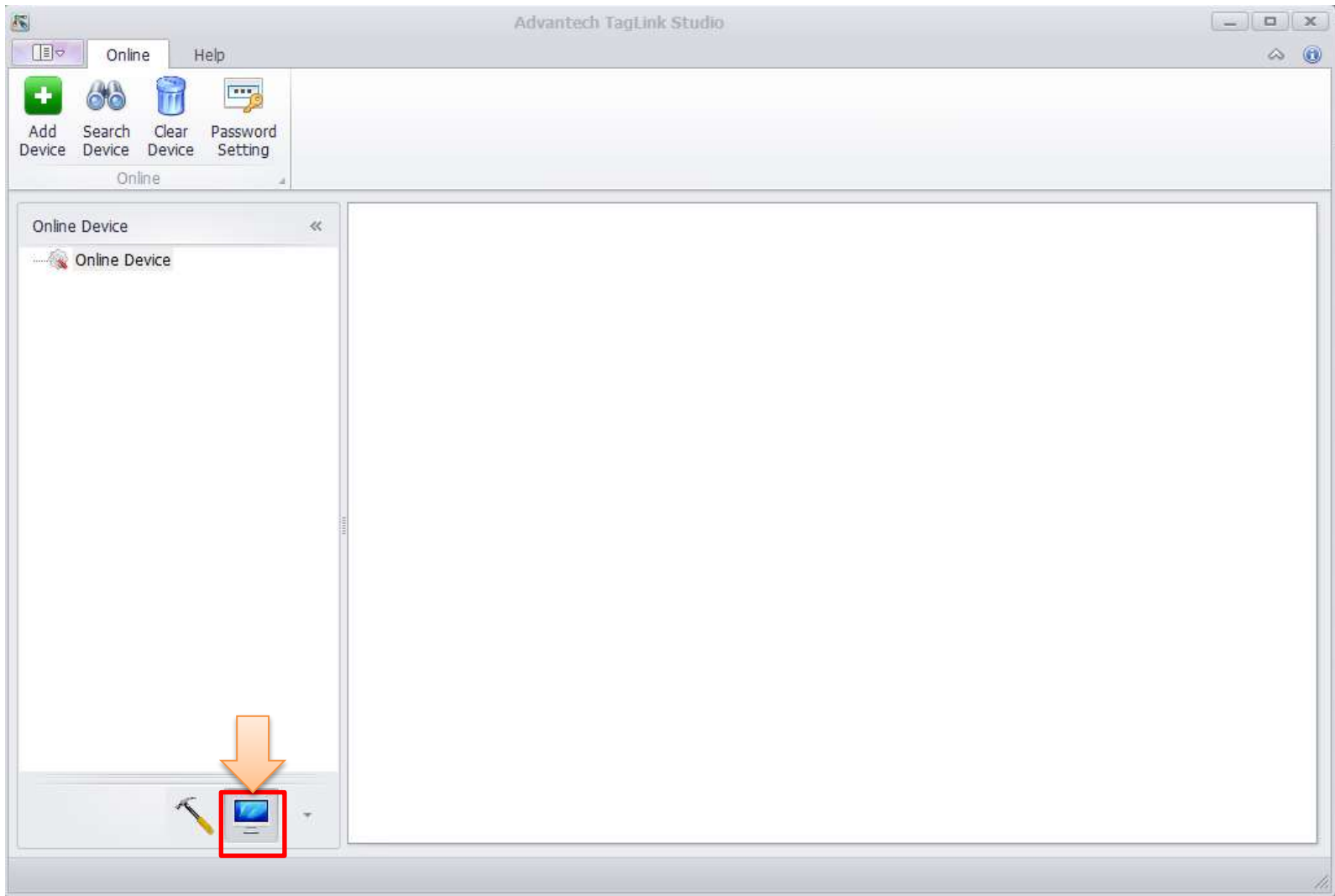
Step1: Use Ethernet cable to connect ADAM-3600 and turn on TagLink



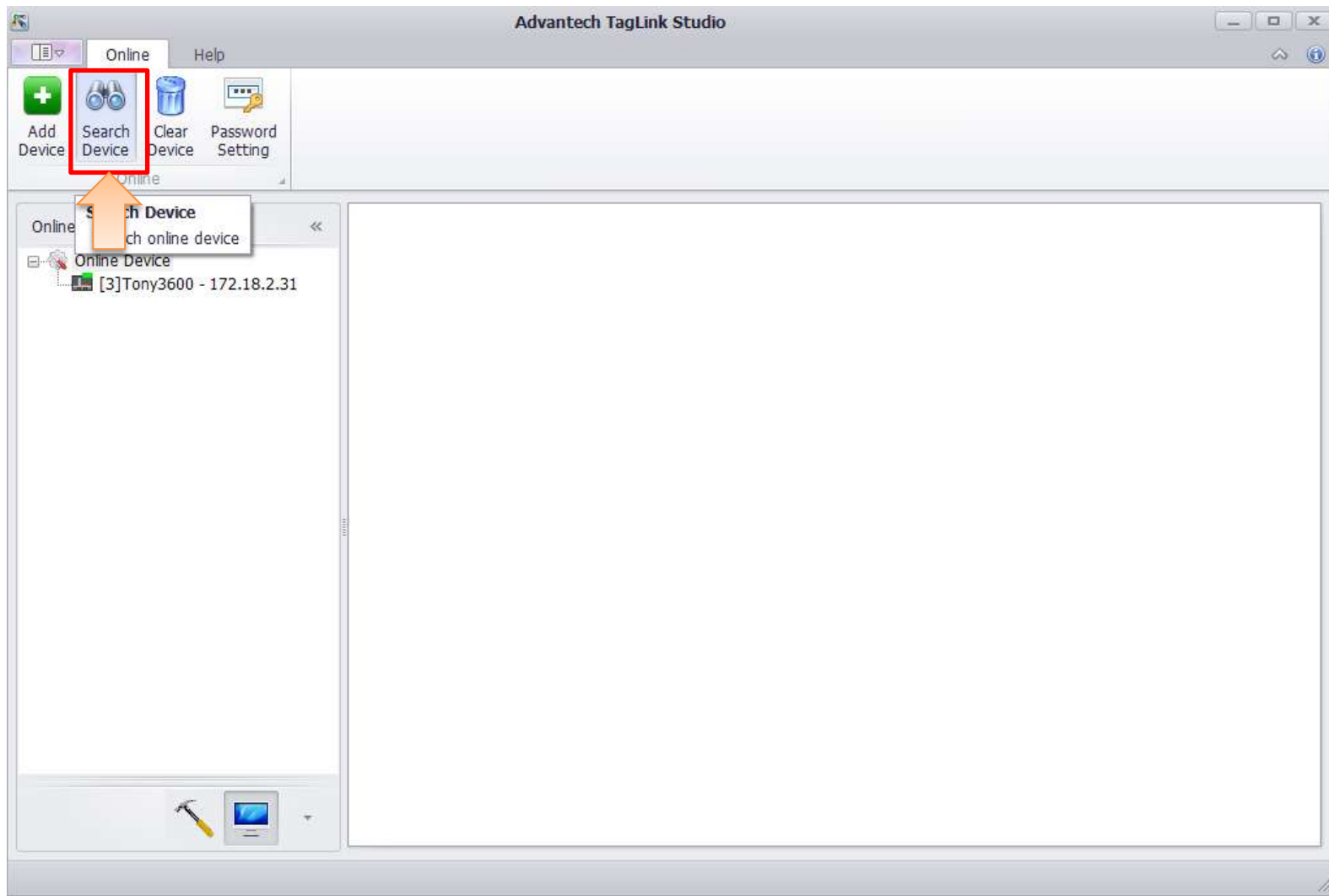
TagLink Utility Download:

http://support.advantech.com/support/DownloadSRDetail_New.aspx?SR_ID=1-1DGHHNI&Doc_Source=Download

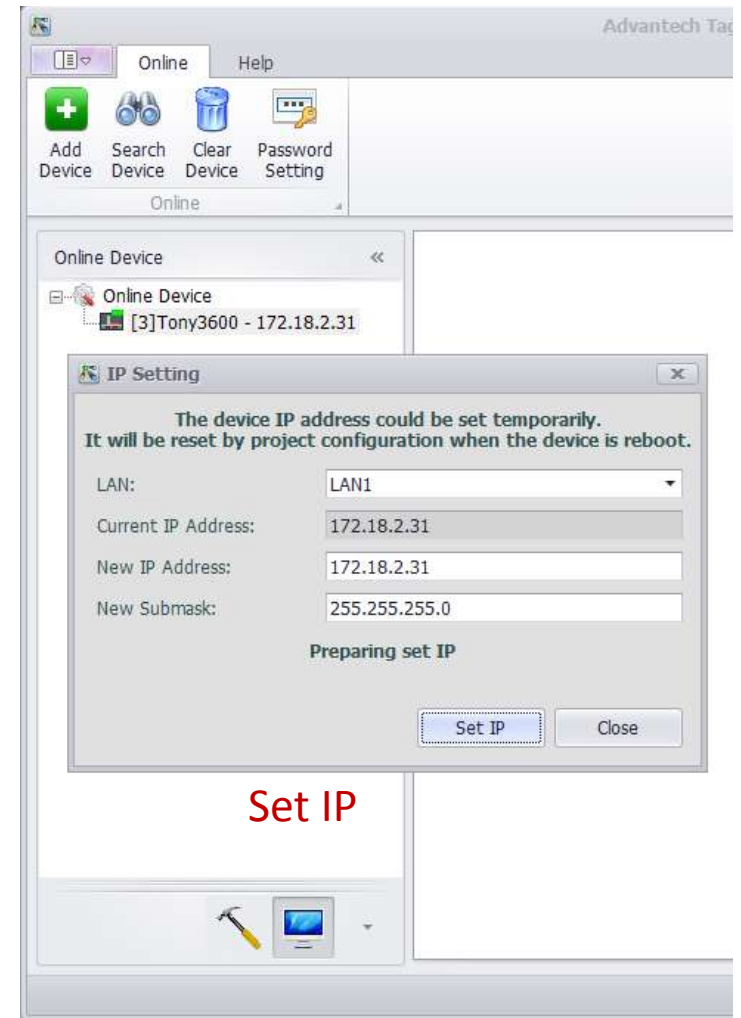
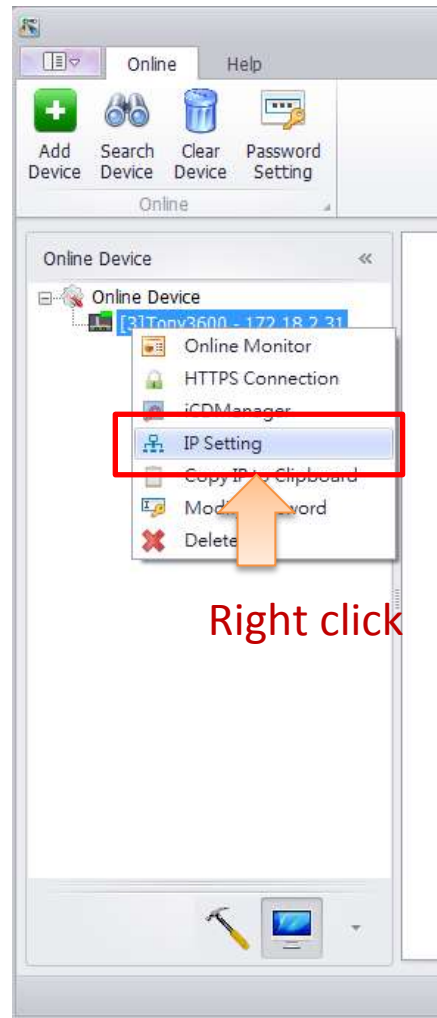
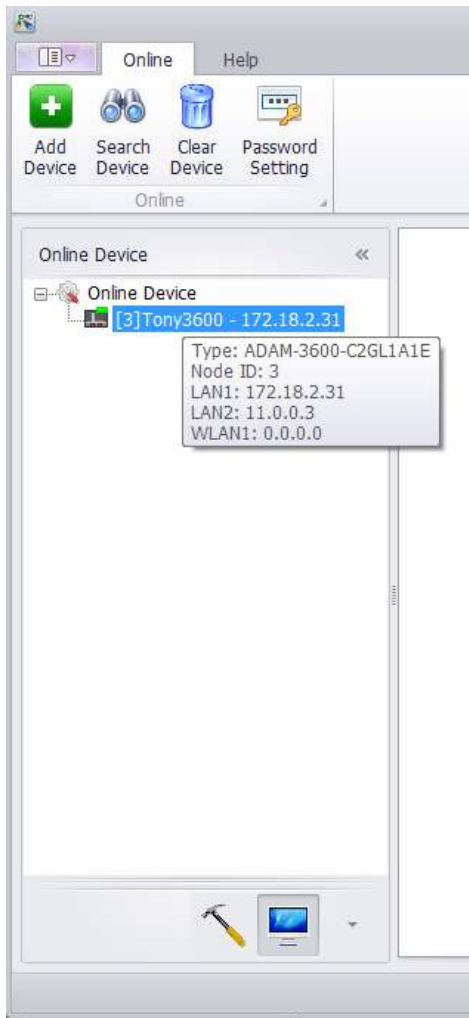
Step2: Click Online Device



Step3: Choose Search Device



Step4: Set IP temporarily



Step5: Double click and Log in Web page

The screenshot shows the Advantech TagLink Studio interface. On the left, the 'Online Device' list contains an entry '[3]Tony3600 - 172.18.2.31' which is highlighted with a red box and an orange arrow pointing to it. The main window displays the 'Online Monitor(Tony3600)' for device 'ADAM-3600-C2G'. Below the device name, there is a 'Tags' section with tabs for 'System Tag', 'IO Tag', 'User Tag', and 'Calculation Tag'. The 'System Tag' tab is active, showing a table of system tags.

Tag	Value	Quality	Timestamp
#SYS_UPTIME	370634	Good	Sat Aug 02 2014 06:26:57 GMT+0800 (台北標準時間)
#SYS_CURRENT_TIME	1406932017	Good	Sat Aug 02 2014 06:26:57 GMT+0800 (台北標準時間)

Should be in the same segment with PC

ADAM-3600 GUI: Tags' information

ADAM-3600-C2G Login

Tags

I/O Status (Main) ADAM-3600-C2G System Information Configuration

Tags

System Tag IO Tag User Tag Calculation Tag

System Tag

Tag	Value	Quality	Timestamp
#SYS_UPTIME	370764	Good	Sat Aug 02 2014 06:29:07 GMT+0800 (台北標準時間)
#SYS_CURRENT_TIME	1406932147	Good	Sat Aug 02 2014 06:29:07 GMT+0800 (台北標準時間)
#SYS_CPU_FREQ	629145600	Good	Tue Jul 29 2014 00:17:04 GMT+0800 (台北標準時間)
#SYS_MEM_SIZE	242.14 MB	Good	Tue Jul 29 2014 00:17:04 GMT+0800 (台北標準時間)
#SYS_CPU_USED	10.01%	Good	Sat Aug 02 2014 06:29:07 GMT+0800 (台北標準時間)
#SYS_MEM_USED	19.42%	Good	Sat Aug 02 2014 06:29:07 GMT+0800 (台北標準時間)
#SYS_TFCARD_CAPACITY	954.00 MB	Good	Tue Jul 29 2014 00:17:04 GMT+0800 (台北標準時間)

ADAM-3600 GUI: IO status in the motherboard

ADAM-3600-C2G Login

Tags

I/O Status ADAM-3600-C2G

(Main) ADAM-3600-C2G

System Information

Configuration

AI DI DO

AI

AI		Config	
Slot Number	Channel Number	Input Range	Value
MotherBoard	0	+/- 10 V	-0.001
MotherBoard	1	+/- 10 V	-0.001
MotherBoard	2	+/- 10 V	-0.002
MotherBoard	3	+/- 10 V	-0.002
MotherBoard	4	+/- 10 V	-0.001
MotherBoard	5	+/- 10 V	-0.001
MotherBoard	6	+/- 10 V	-0.001

ADAM-3600 GUI: System information

ADAM-3600-C2G Login

Tags

I/O Status ▼

(Main) ADAM-3600-C2G

System Information

Configuration

GPRS Information System Log Data Logger

GPRS Info

Mobile Network Operator	Mobile Network Type	Mobile Phone Number	Mobile data traffic	Signal quality	Public IP
No GPRS Service	No GPRS Service	0	0 Bytes	Not Connected(0)	0

Showing 1 to 1 of 1 rows

<< < 1 > >>

Version : 1.3.0 Beta Jan 17 2017, Copyright © 2016 Advantech Co.,Ltd

ADAM-3600 GUI: Configuration

ADAM-3600-C2G Login

Tags

I/O Status

(Main) ADAM-3600-C2G

System Information

Configuration

Configuration

Time & Date Control Image Update

Time & Date

Current Time	2014-08-02T06:36:13+08:00	↻
Time Zone	(GMT+08:00) Taipei	▼ 📄
Time Calibration	🔧 2017-02-21T18:21:08	📄

Version : 1.3.0 Beta Jan 17 2017, Copyright © 2016 Advantech Co.,Ltd

Step6: Testing DO need root account

ADAM-3600-C2G Login

Tags

I/O Status ADAM-3600-C2G

- (Main) ADAM-3600-C2G
- (Slot 1) ADAM-3624

System Information

Configuration

AI DI **DO**

DO

DO				PWM Config		
Slot Number	Channel Number	Mode	Signal Logic Status	Value	Low Signal Width	High Signal Width
MotherBoard	0	Normal	0	--	--	--
MotherBoard	1	Normal	0	--	--	--
MotherBoard	2	Normal	0	--	--	--
MotherBoard	3	Normal	0	--	--	--

Firmware Version: 1.1.1.81

Step7: Set value and submit

ADAM-3600-C2G root

Tags

I/O Status

- (Main) ADAM-3600-C2G
- (Slot 1) ADAM-3624

System Information

Configuration

AI DI **DO**

DO

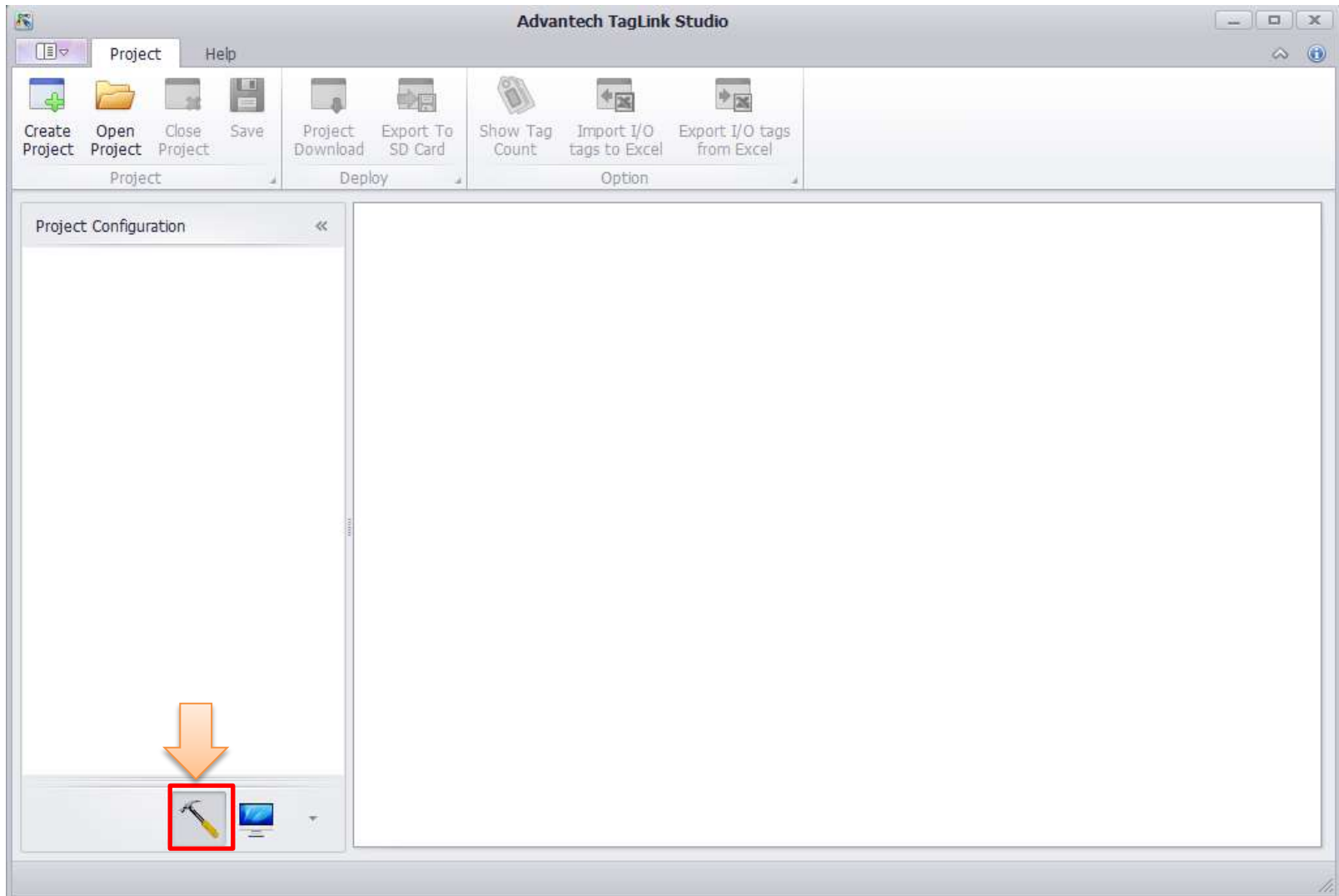
Slot Number: MotherBoard Channel Number: 0

Mode: Normal DO Value:

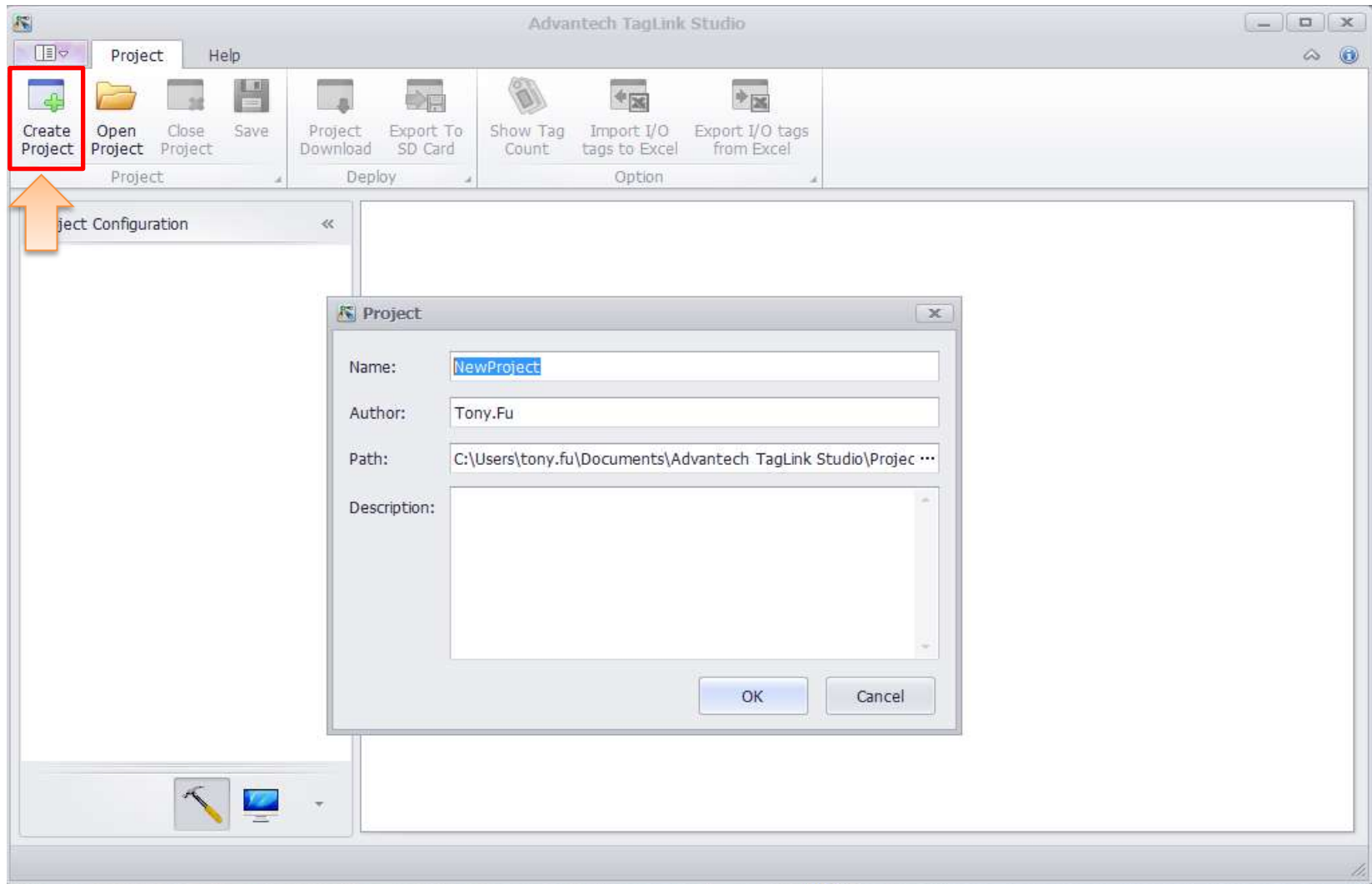
DO			PWM Config			
Slot Number	Channel Number	Mode	Signal Logic Status	Value	Low Signal Width	High Signal Width
MotherBoard	0	Normal	0	--	--	--
MotherBoard	1	Normal	0	--	--	--
MotherBoard	2	Normal	0	--	--	--
MotherBoard	3	Normal	0	--	--	--

2. Create and download project

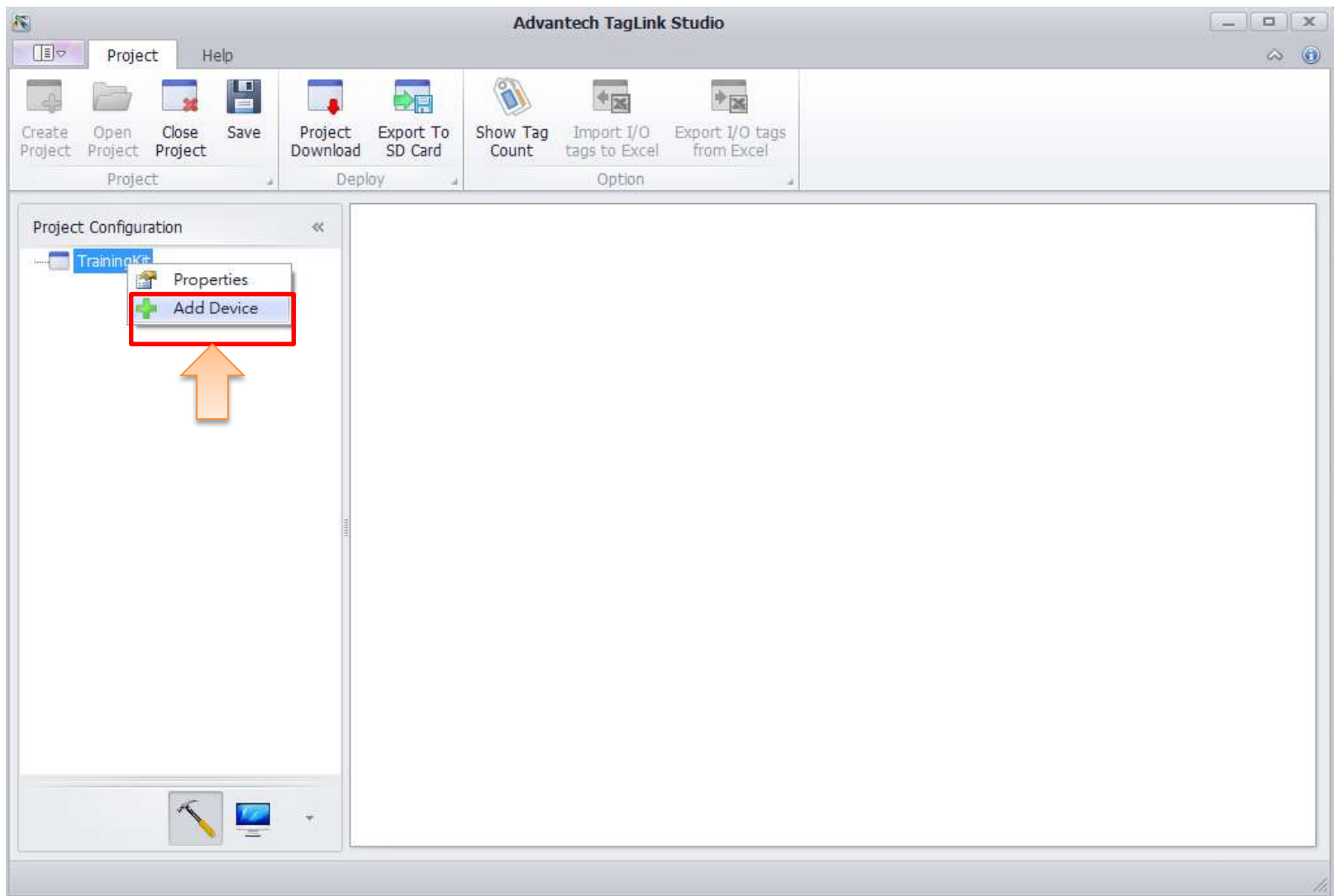
Step1: Choose Project Configuration



Step2: Create new project



Step3: Add device



Step4: Choose device type > Apply

Advantech TagLink Studio

Project Configuration

TrainingKit

New Device* x

Apply Discard

General Information

Name: Tony3600

Device Type: ADAM-3600-C2GL1A1E

Password:

Identity: Node ID

Node ID: 3

IP Address: 0.0.0.0

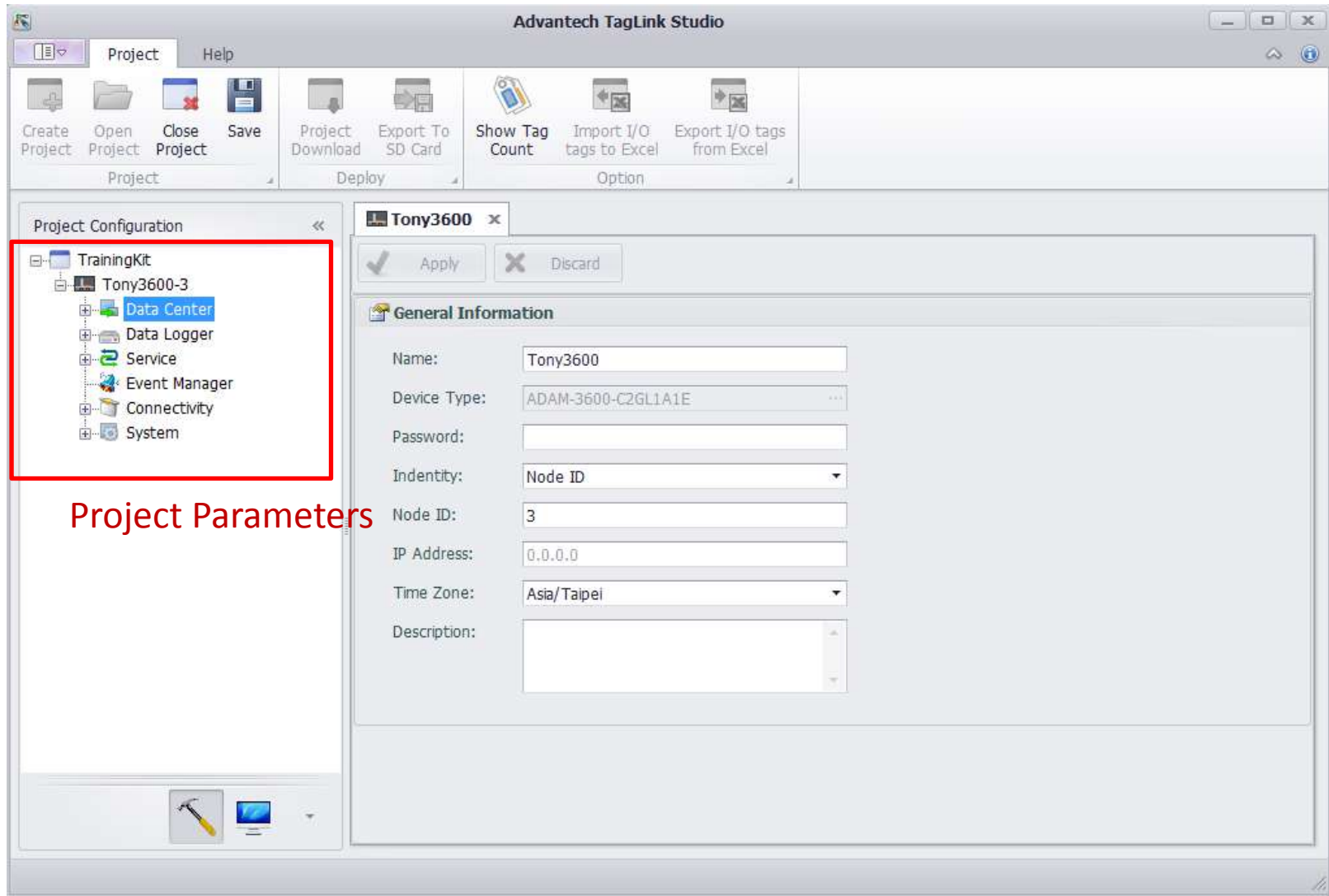
Time Zone: Asia/Taipei

Description:

[0 0 0 0 1] = 1

[1 0 0 0 0] = 32

Step5: New Device Added



Project Parameters

Tony3600 x

Apply Discard

General Information

Name: Tony3600

Device Type: ADAM-3600-C2GL1A1E

Password:

Identity: Node ID

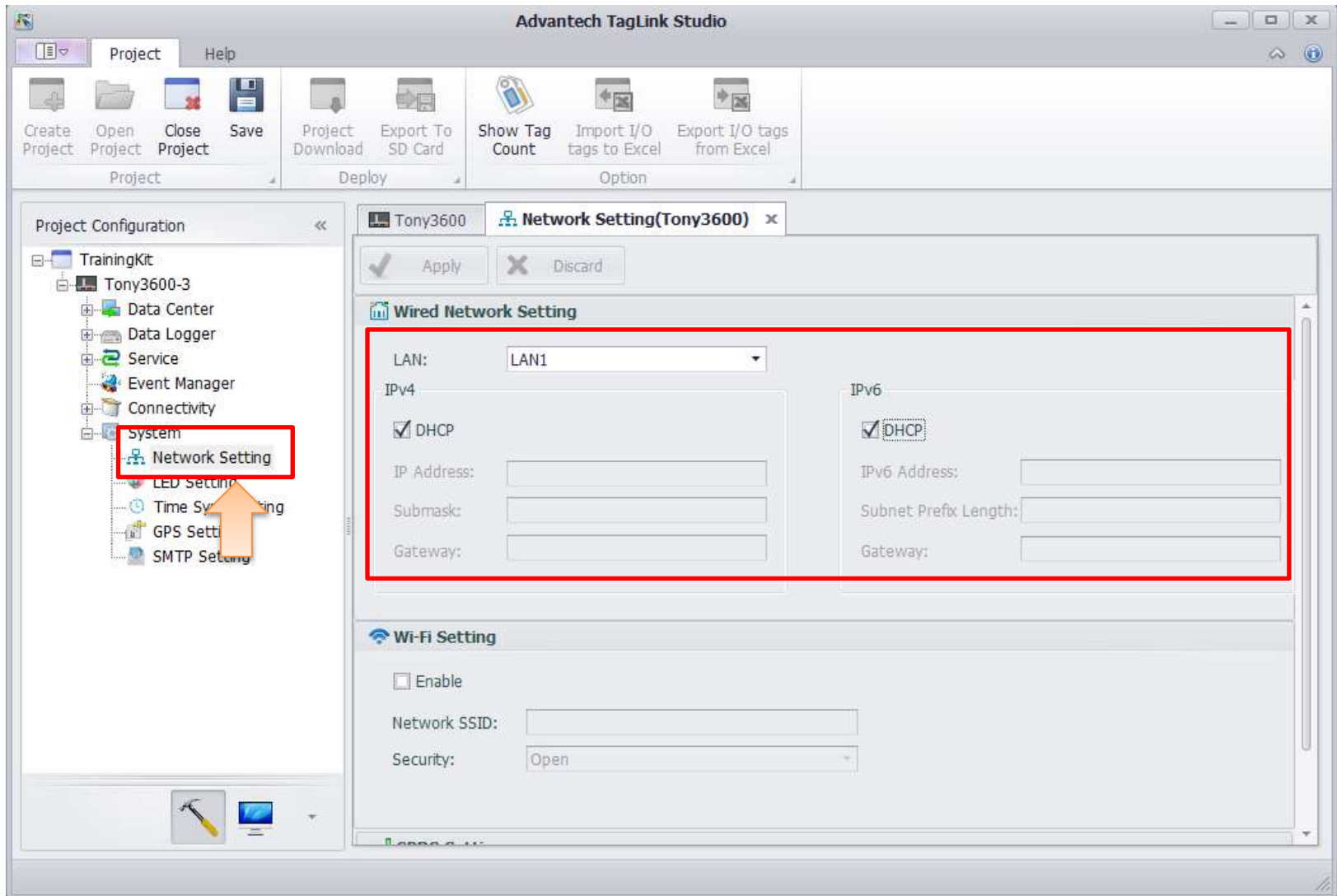
Node ID: 3

IP Address: 0.0.0.0

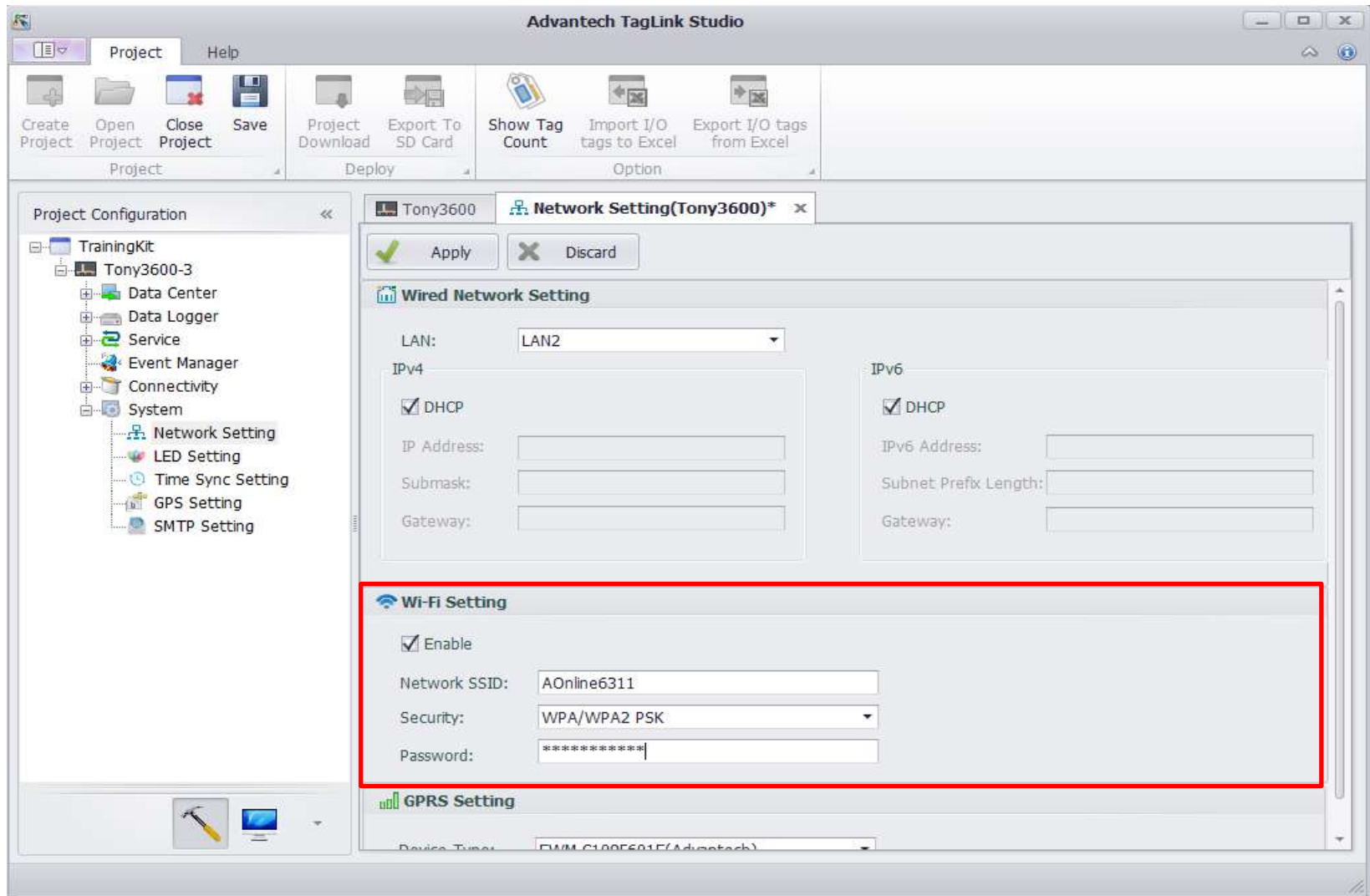
Time Zone: Asia/Taipei

Description:

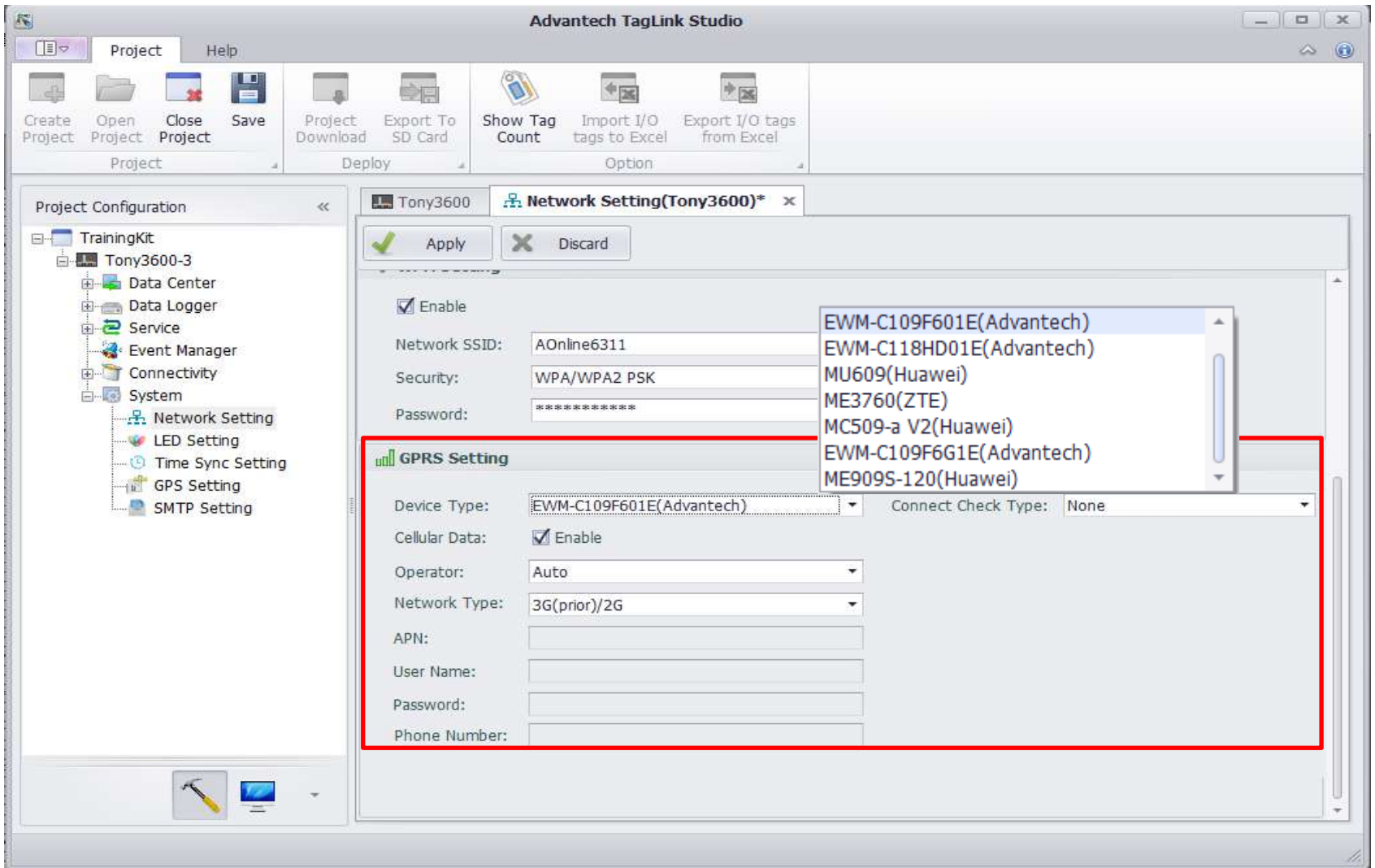
Step6: Setting LAN1



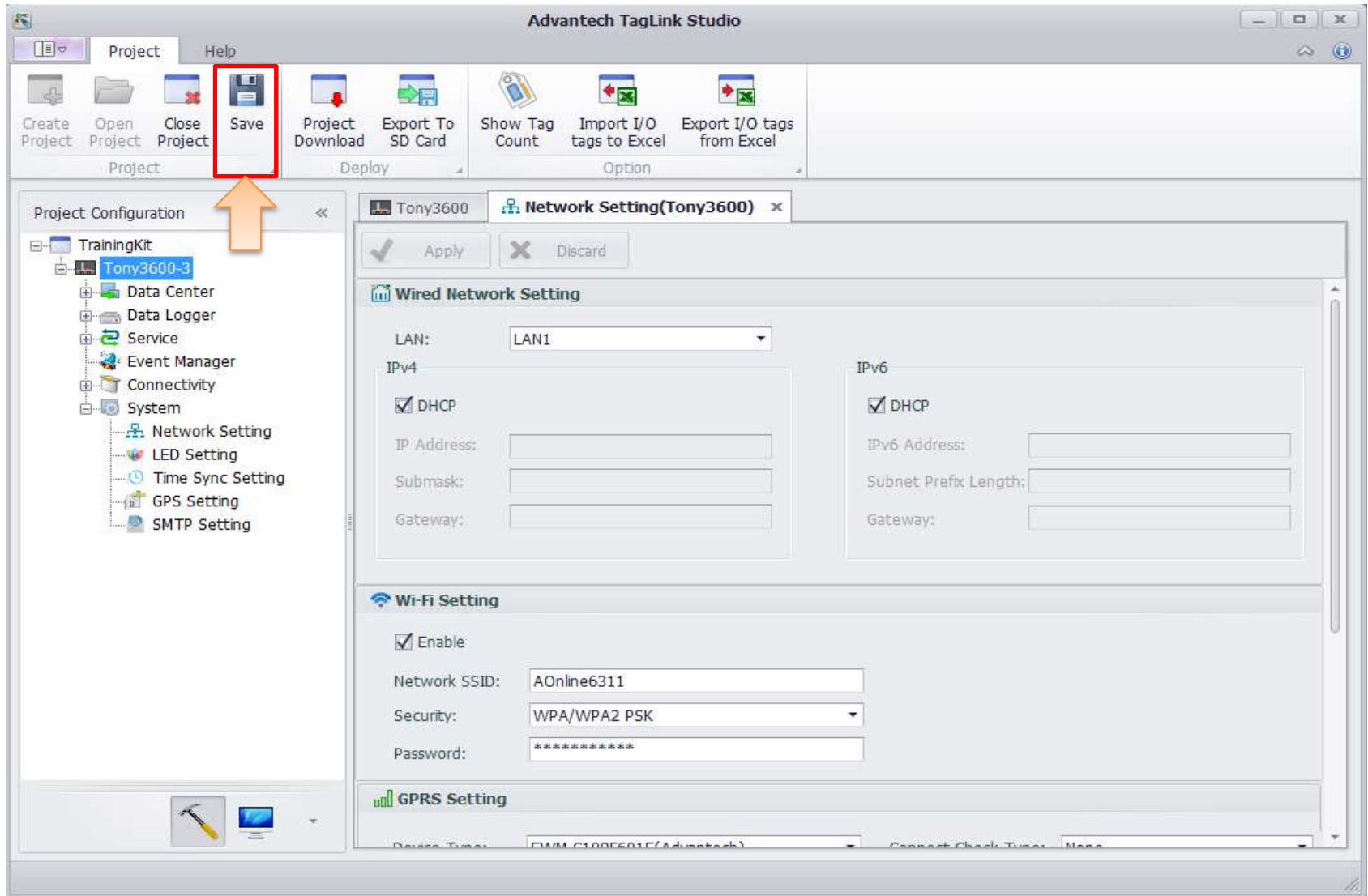
Step6: Setting LAN2 (Wifi function needs Wifi module)



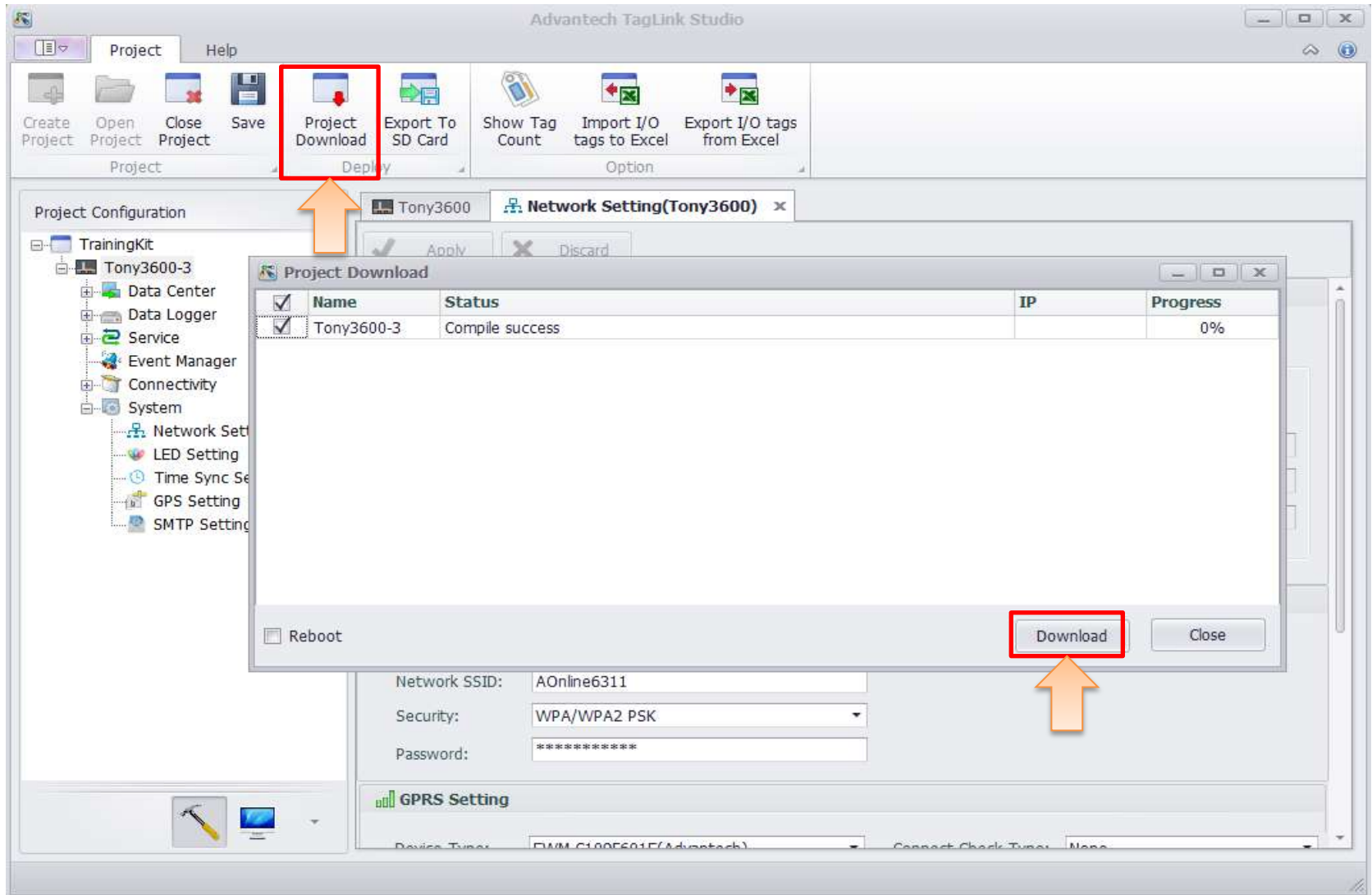
Step6: Setting 3G/GPRS



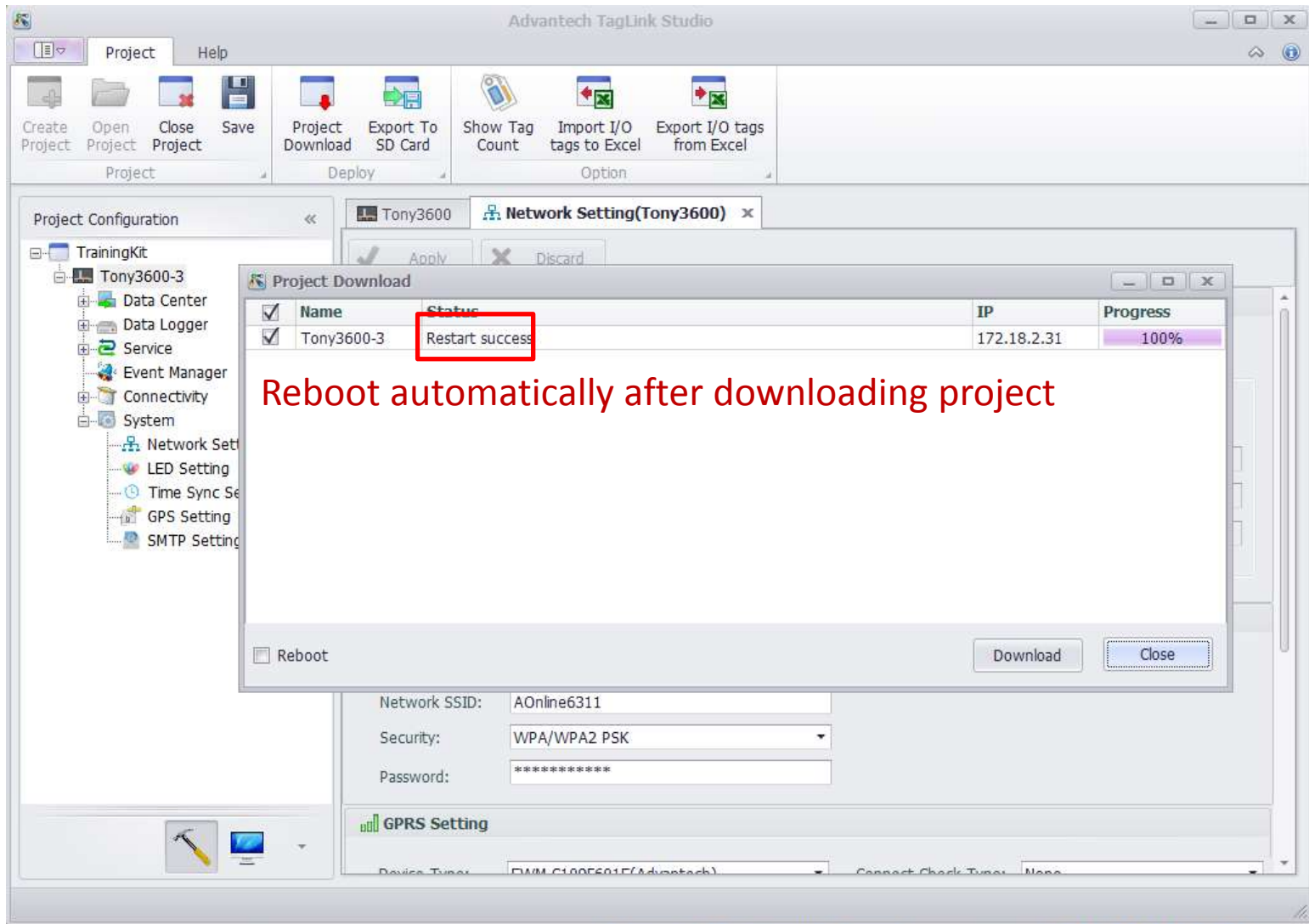
Step7: Apply > Save



Step 8: Download Project



Step9: Project Download



Step10: Check Network Status

The screenshot displays the web interface for the ADAM-3600-C2G device. The main content area is titled "System Information" and includes a "GPRS Info" section. A table below this section shows the current network status. A red box highlights the table's content, and a tooltip provides detailed network configuration for the device.

System Information

GPRS Info

Mobile Network Operator	Mobile Network Type	Mobile Phone Number	Mobile data traffic	Signal quality	Public IP
46692	3G	0	1.20 KB	Excellent(29)	10.108.20.210

Showing 1 to 1 of 1 rows

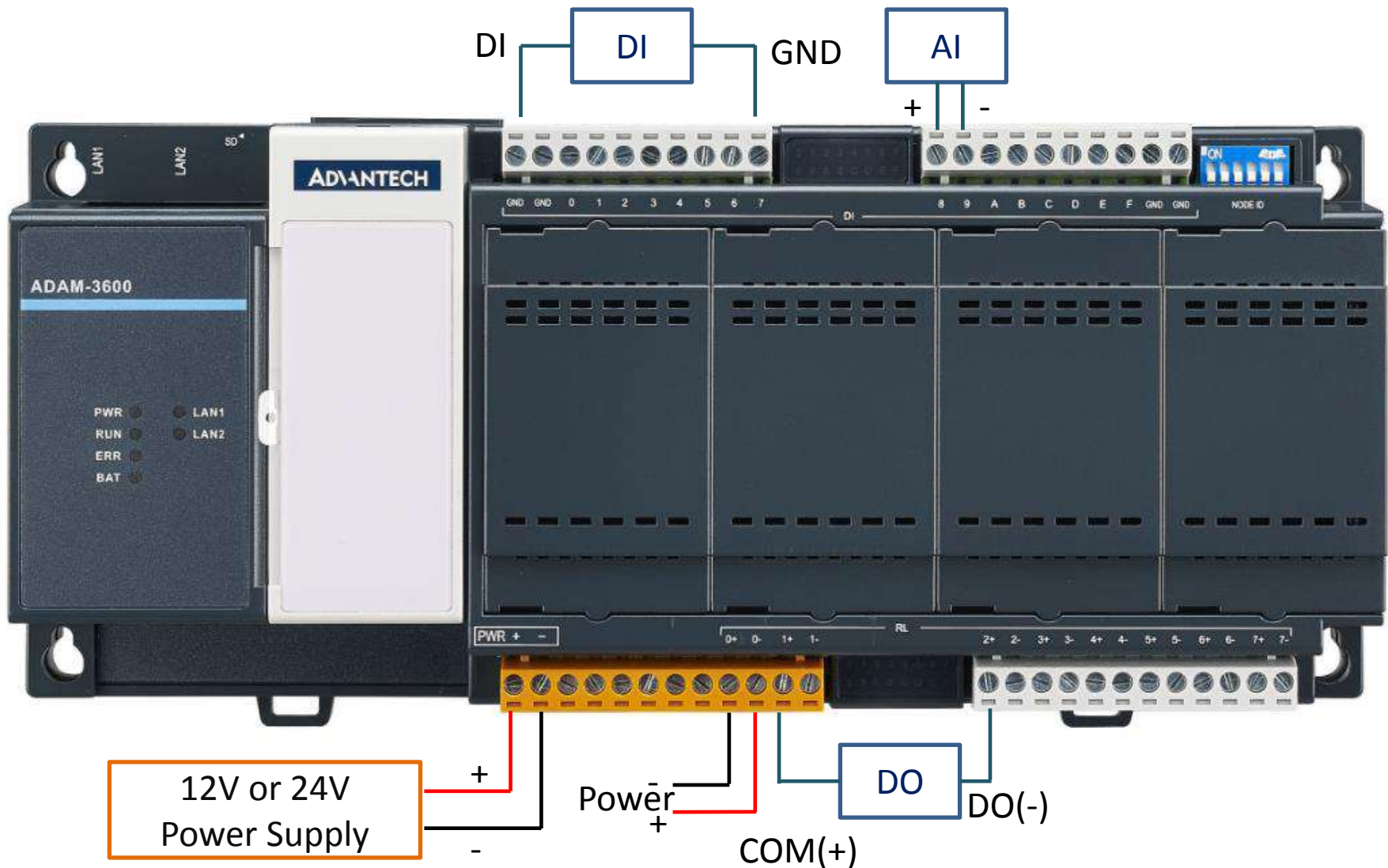
Online Device

[3]Tony3600 - 172.18.2.31

Type: ADAM-3600-C2GL1A1E
Node ID: 3
LAN1: 172.18.2.31
LAN2: 11.0.0.3
WLAN1: 172.18.2.24
GPRS: 10.108.20.210

3. Hardware signal connection

ADAM-3600 On board AI/DIO



4. Create internal tags and expansion modules

Step1: On-Board IO has already built inside your project

The screenshot displays the Advantech TagLink Studio interface. On the left, the Project Configuration tree shows a hierarchy: TrainingKit > Tony3600-3 > Data Center > IO Tag > BoardIO > BoardIO > IO Tag. A red box highlights the 'IO Tag' folder, and an orange arrow points to it from the table below. The main window shows a table of IO tags with columns: Name, Data Type, Initial Value, Address, Conversion Type, Scale Type, and Description. The table lists 28 tags, including BoardIO:AI.0 through BoardIO:AI.7, BoardIO:DI.0 through BoardIO:DI.7, and BoardIO:DO.0 through BoardIO:DO.3.

Name	Data Type	Initial Value	Address	Conversion Type	Scale Type	Description
BoardIO:AI.0	Analog	0	AI.0	N/A	No Scale	
BoardIO:AI.1	Analog	0	AI.1	N/A	No Scale	
BoardIO:AI.2	Analog	0	AI.2	N/A	No Scale	
BoardIO:AI.3	Analog	0	AI.3	N/A	No Scale	
BoardIO:AI.4	Analog	0	AI.4	N/A	No Scale	
BoardIO:AI.5	Analog	0	AI.5	N/A	No Scale	
BoardIO:AI.6	Analog	0	AI.6	N/A	No Scale	
BoardIO:AI.7	Analog	0	AI.7	N/A	No Scale	
BoardIO:DI.0	Discrete	0	DI.0	N/A	No Scale	
BoardIO:DI.1	Discrete	0	DI.1	N/A	No Scale	
BoardIO:DI.2	Discrete	0	DI.2	N/A	No Scale	
BoardIO:DI.3	Discrete	0	DI.3	N/A	No Scale	
BoardIO:DI.4	Discrete	0	DI.4	N/A	No Scale	
BoardIO:DI.5	Discrete	0	DI.5	N/A	No Scale	
BoardIO:DI.6	Discrete	0	DI.6	N/A	No Scale	
BoardIO:DI.7	Discrete	0	DI.7	N/A	No Scale	
BoardIO:DO.0	Discrete	0	DO.0	N/A	No Scale	
BoardIO:DO.1	Discrete	0	DO.1	N/A	No Scale	
BoardIO:DO.2	Discrete	0	DO.2	N/A	No Scale	
BoardIO:DO.3	Discrete	0	DO.3	N/A	No Scale	

Step2: Add expansion modules

The screenshot displays the Advantech TagLink Studio software interface. The main window is titled "Advantech TagLink Studio" and features a menu bar with "Project" and "Help". Below the menu bar is a toolbar with icons for "Create Project", "Open Project", "Close Project", "Save", "Project Download", "Export To SD Card", "Show Tag Count", "Import I/O tags to Excel", and "Export I/O tags from Excel".

The interface is divided into several sections:

- Project Configuration:** A tree view on the left shows the project structure. Under "TrainingKit" > "Tony3600-3" > "Data Center" > "IO Tag", there is a sub-entry "Board IO" with an "Edit" button highlighted by a red box. A red text annotation "Board IO > Edit" points to this button.
- IO Tag(Tony3600-BoardIO) I/O(Tony3600):** The main configuration area for the selected module. It includes "Apply" and "Discard" buttons, and a "General Information" section with the following fields:
 - Type: I/O
 - Description: (empty text area)
 - Scan Time(ms): 1000
 - Time Out(ms): 3000
 - Retry Count: 3
 - Auto Recover Time(s): 10
- Extension IO:** A section below the general information, featuring a "slot1:" dropdown menu currently set to "Null".
- Table:** A table at the bottom with columns for "Type", "Name", "Range Code", "Integrati...", "Type", "Name", and "Mode".

In the center of the configuration area, there is a small image of the hardware board with four slots labeled "Slot1", "Slot2", "Slot3", and "Slot4". A red box highlights the "Slot1" area on the board image.

Step3: Choose which module you use and location

The screenshot shows the Advantech TagLink Studio software interface. The main window is titled "IO Tag(Tony3600-BoardIO)" and "I/O(Tony3600)*". The interface includes a menu bar (Project, Help), a toolbar with icons for "Create Project", "Open Project", "Close Project", "Save", "Project Download", "Export To SD Card", "Show Tag Count", "Import I/O tags to Excel", and "Export I/O tags from Excel".

On the left, the "Project Configuration" tree shows a hierarchy: TrainingKit > Tony3600-3 > Data Center > IO Tag > BoardIO > BoardIO > IO Tag. Other options include TCP, ZigBee-miniPCIe/USB, System Tag, Calculation Tag, User Tag, Data Logger, Periodic Logger, Service, Event Manager, Connectivity, and System.

The main workspace displays a hardware rack with a red box highlighting a specific slot. An orange arrow points from this slot to a dropdown menu titled "Extension IO Slot1:". The dropdown menu lists the following options: ADAM-3624, Null, ADAM-3617, ADAM-3618, ADAM-3624 (highlighted), ADAM-3651, and ADAM-3656. An orange arrow points from the highlighted option to a table below.

The table below the dropdown menu is titled "Extension IO" and has columns for "Type", "Name", "Range Code", "Integra", "Name", and "Mode". The table contains the following data:

Type	Name	Range Code	Integra	Name	Mode
IO_AO	A00	0-10V			
	A01	0-10V			
	A02	0-10V			
	A03	0-10V			

Two red text annotations are present: "Please choose slot you installed module" with an arrow pointing to the hardware rack, and "Choose model name of module" with an arrow pointing to the dropdown menu.

Step4: Tag will be automatically created after choosing modules

The screenshot displays the Advantech TagLink Studio software interface. The main window shows a project configuration tree on the left and a table of IO tags on the right. The table lists four IO tags for Slot1:AO.0 through Slot1:AO.3, all of which are Analog data types with an initial value of 0 and an address corresponding to their name. The table is highlighted with a red border.

Name	Data Type	Initial Value	Address	Conversi...	Scale Type	Descripti..
Slot1:AO.0	Analog	0	AO.0	N/A	No Scale	
Slot1:AO.1	Analog	0	AO.1	N/A	No Scale	
Slot1:AO.2	Analog	0	AO.2	N/A	No Scale	
Slot1:AO.3	Analog	0	AO.3	N/A	No Scale	

Step5: Modify tags' type or name

The screenshot displays the Advantech TagLink Studio interface. On the left is a Project Configuration tree showing a hierarchy: TrainingKit > Tony3600-3 > Data Center > IO Tag > BoardIO > Slot1 > IO Tag. The main window shows a table of IO tags. The first row, 'Slot1:AO.0', is highlighted with a red box. An orange arrow points from this row to the 'Update Tag: Slot1:AO.0' configuration panel below. The configuration panel has two tabs: 'Basic' and 'Advanced'. The 'Basic' tab shows fields for Name (AO.0), Data Type (Analog), Address (AO.0), Span High (0), Span Low (0), and Initial Value (0). The 'Advanced' tab shows Scaling Type (No Scale), Formula, Scale (0), Bias (0), and Clamp options (Clamp to span low, Clamp to span high, Clamp to zero).

Name	Data Type	Initial Value	Address	Conversi...	Scale Type	Descripti..
Slot1:AO.0	Analog	0	AO.0	N/A	No Scale	
Slot1:AO.1	Analog	0	AO.1	N/A	No Scale	
Slot1:AO.2	Analog	0	AO.2	N/A	No Scale	
Slot1:AO.3	Analog	0	AO.3	N/A	No Scale	

Update Tag: Slot1:AO.0

Basic

Name: AO.0
Data Type: Analog
Address: AO.0
Span High: 0
Span Low: 0
Initial Value: 0
Description:

Advanced

Scaling Type: No Scale
Formula:
Scale: 0
Bias: 0
Clamp:
 Clamp to span low
 Clamp to span high
 Clamp to zero

Double click to know more details

Tags' type

Update Tag: Slot1:AO.0

Basic

Name: AO.0

Data Type: Analog **Tags' type**

Address: AO.0 ...

Span High: 10

Span Low: 0

Initial Value: 0

Description:

Advanced

Scaling type and parameters

ScalingType: Scale 0-100% Input to Span

Formula: $(SPANHI - SPANLO) \frac{INPUT}{100} + SPANLO$

Scale: 0

Bias: 0

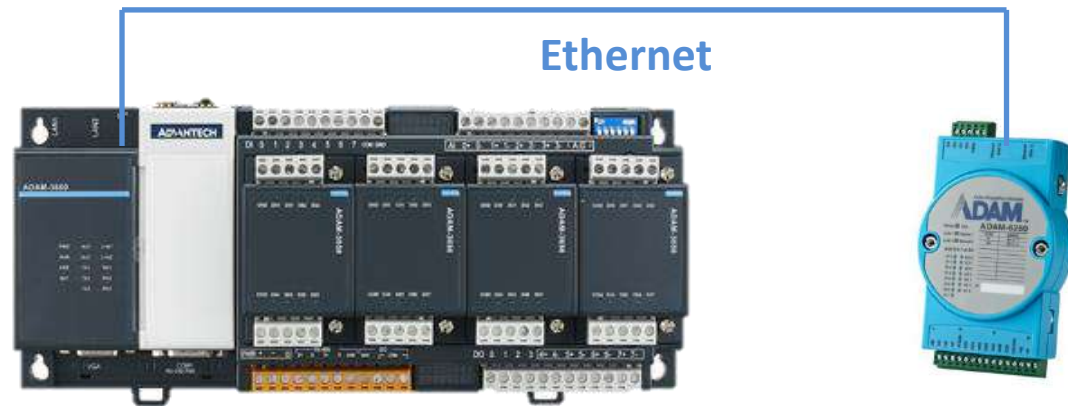
Clamp:

- Clamp to span low
- Clamp to span high
- Clamp to zero

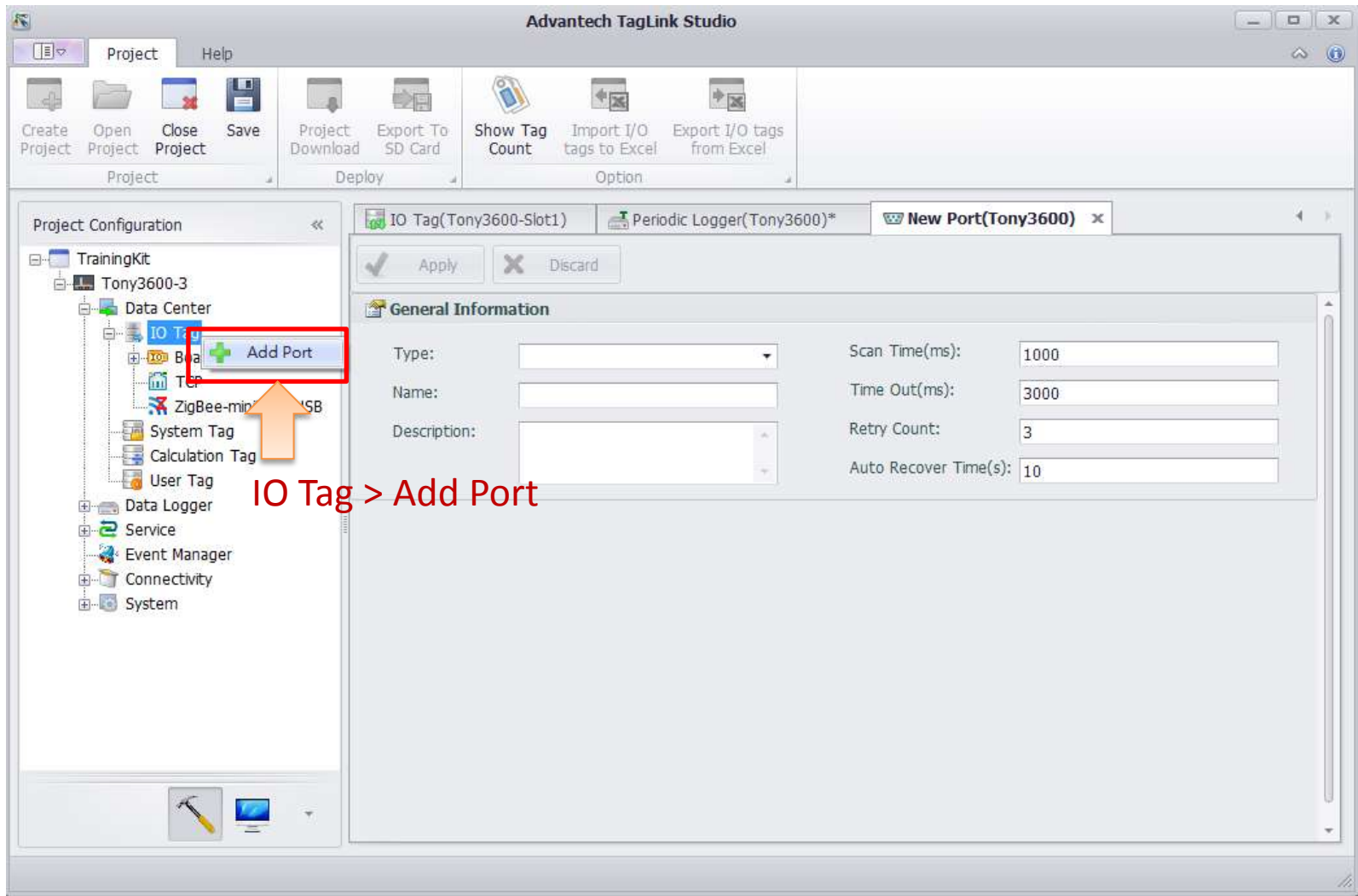
OK Cancel

5. Create external device and tags

Step1-1: Create device with RS485 connection



Step1-2: Add com port



Step1-3: Choose Serial > Choose which COM port you used in ADAM-3600

The screenshot shows the Advantech TagLink Studio interface. On the left is a Project Configuration tree with 'TrainingKit' expanded to 'Tony3600-3', then 'Data Center', 'IO Tag', and 'BoardIO'. The main window shows the configuration for 'New Port(Tony3600)*'. The 'General Information' section has 'Type' set to 'Serial' (highlighted with a red box and an arrow pointing to the text 'Choose serial'). The 'Serial Port Setting' section has 'Port' set to 'COM2' (highlighted with a red box and an arrow pointing to the text 'Choose com port number and its parameters'). Other parameters include Scan Time (1000 ms), Time Out (3000 ms), Retry Count (3), Auto Recover Time (10 s), Baud Rate (9600), Data Bit (8), Stop Bit (1), Parity (None), RTS (False), and DTR (False).

Step1-4: Add meter

Advantech TagLink Studio

Project Configuration

TrainingKit

Tony3600-3

Data Center

IO Tag

BoardIO

COM2

ICP

ZigBee-minipcie

System Tag

Calculation Tag

User Tag

Data Logger

Service

Event Manager

Connectivity

System

Apply Discard

General Information

Enable

Name: PMeter

Meter Type: Modicon (Modicon Modbus Series)

Unit Number: 2

Tag Write Type: Single Write

Description:

Enable

Name: NewMeter

Meter Type:

Unit Number:

Tag Write Type:

Description:

Add meter name as prefix to IO

Extention Properties

Use ASCII Protocol:

Packet Delay (ms):

Add meter name as pr

Choose correct driver in order to connect to device

AceFAM3

MitsuA

MitsuAnA

MitsuFx

MitsuFx2

MitsuFx3

MitsuQ

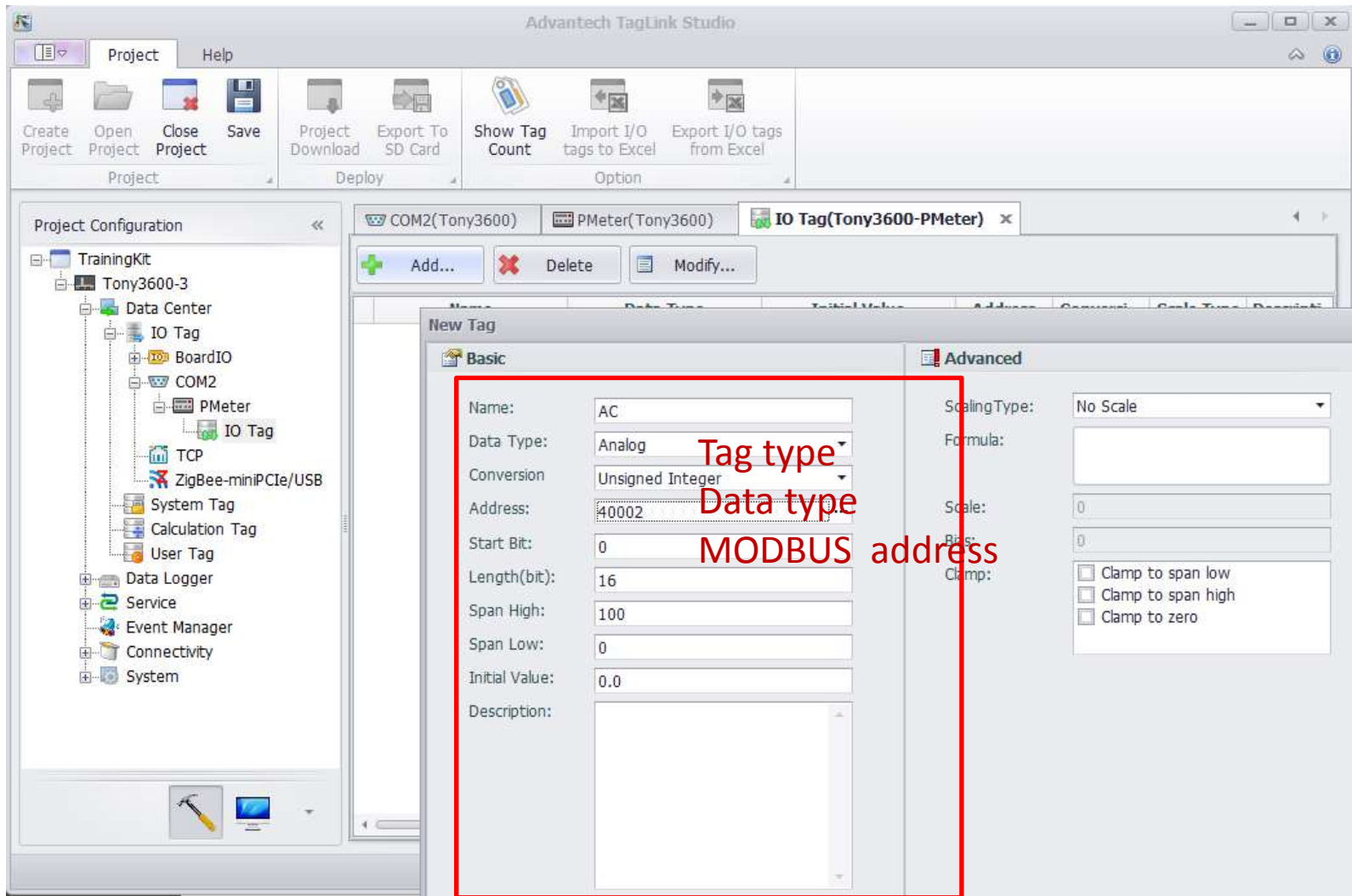
Modicon (Modicon Modbus Series)

MsysRX (M System, Modbus Compatible, RX)

OmronC

OmronCJ

Step1-5: Add tags



Step1-6: Create all of them and finish

The screenshot displays the Advantech TagLink Studio software interface. The main window is titled "Advantech TagLink Studio" and features a menu bar with "Project" and "Help". Below the menu bar is a toolbar with icons for "Create Project", "Open Project", "Close Project", "Save", "Project Download", "Export To SD Card", "Show Tag Count", "Import I/O tags to Excel", and "Export I/O tags from Excel".

The interface is divided into two main sections. On the left is the "Project Configuration" tree, which shows a hierarchy starting with "TrainingKit" and "Tony3600-3". Under "Tony3600-3", there is a "Data Center" folder containing several sub-items: "IO Tag", "BoardIO", "COM2", "PMeter", "IO Tag", "TCP", "ZigBee-miniPCIe/USB", "System Tag", "Calculation Tag", and "User Tag". Below these are "Data Logger", "Service", "Event Manager", "Connectivity", and "System".

On the right side, there are three tabs: "COM2(Tony3600)", "PMeter(Tony3600)", and "IO Tag(Tony3600-PMeter)". The "IO Tag(Tony3600-PMeter)" tab is active, showing a table with columns: "Name", "Data Type", "Initial Value", "Address", "Conversi...", "Scale Type", and "Descripti..". The table contains two rows: "AC" and "KW".

Name	Data Type	Initial Value	Address	Conversi...	Scale Type	Descripti..
AC	Analog	0.0	40004	Unsigned ...	No Scale	
KW	Analog	0.0	40002	Unsigned ...	No Scale	

Step1-7: Check connection status and value of tags

ADAM-3600-C2G root

Tags

I/O Status

- (Main) ADAM-3600-C2G
- (Slot 1) ADAM-3624

System Information

Configuration

System Tag **IO Tag** User Tag Calculation Tag

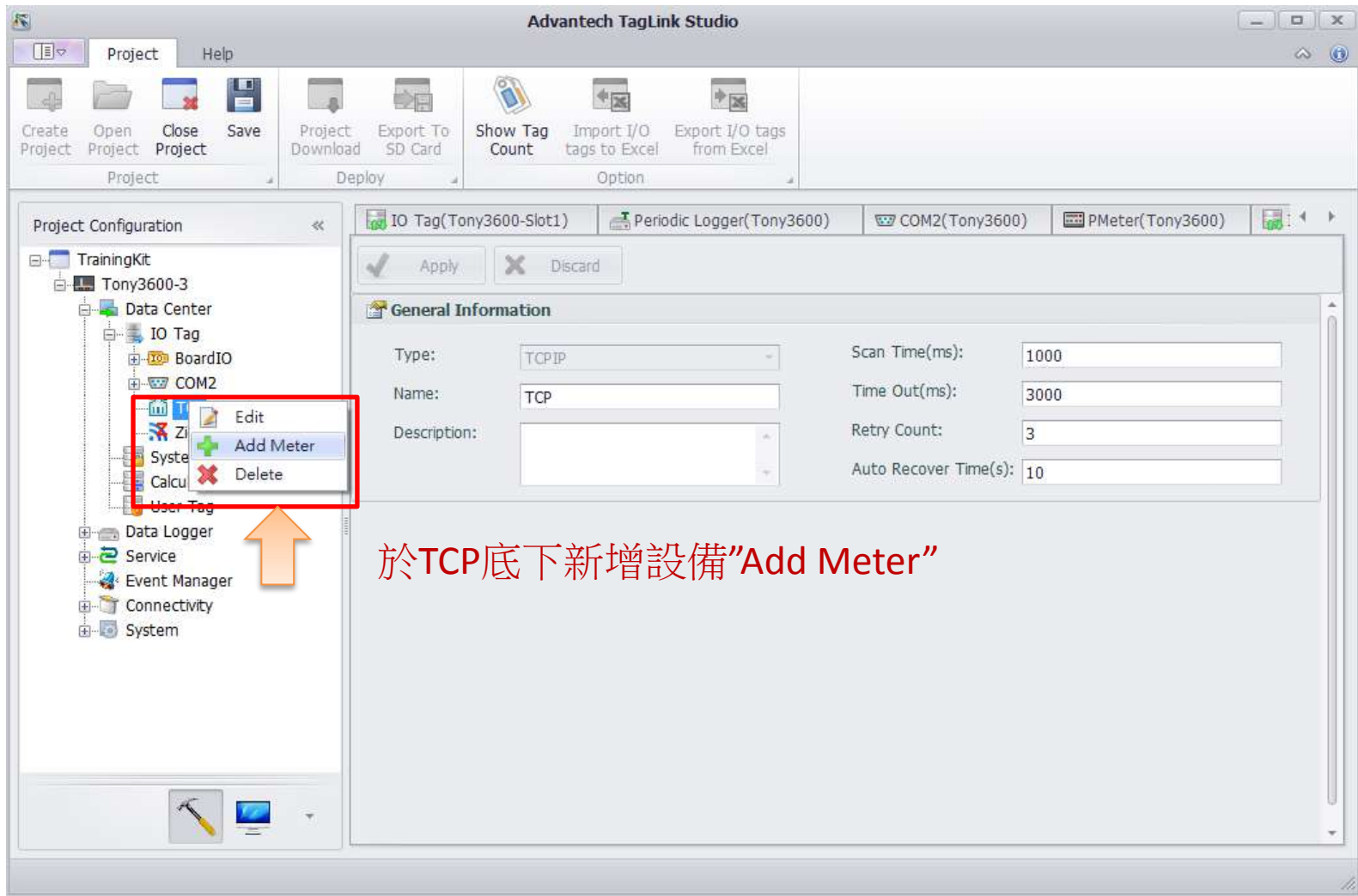
IO Tag

Tag Name Tag Value

Tag	Value	Quality	Timestamp
Slot1:AO.0	0.00	Comm Error	Thu Jan 01 1970 08:00:00 GMT+0800 (台北標準時間)
Slot1:AO.1	0.00	Comm Error	Thu Jan 01 1970 08:00:00 GMT+0800 (台北標準時間)
Slot1:AO.2	0.00	Comm Error	Thu Jan 01 1970 08:00:00 GMT+0800 (台北標準時間)
Slot1:AO.3	0.00	Comm Error	Thu Jan 01 1970 08:00:00 GMT+0800 (台北標準時間)
AC	1067.00	Good	Sun Aug 03 2014 03:05:46 GMT+0800 (台北標準時間)
KW	18.00	Good	Sun Aug 03 2014 03:05:46 GMT+0800 (台北標準時間)

Showing 21 to 26 of 26 rows records per page << < 1 2 **3** > >>

Step2-1: Add TCP device



Step2-2: Add meter

The screenshot displays the Advantech TagLink Studio application window. The interface includes a menu bar (Project, Help), a toolbar with icons for Project, Deploy, and Option, and a Project Configuration tree on the left. The tree shows a project named 'TrainingKit' with a sub-project 'Tony3600-3' containing a 'Data Center' and an 'IO Tag'. A context menu is open over the 'IO Tag', with 'Add Meter' selected. The main window shows the configuration for the 'ADAM6250(Tony3600)' meter. The 'General Information' section is highlighted with a red box and contains the following fields:

- Enable
- Name: ADAM6250
- Meter Type: ADAM6K (ADAM-6000 Ethernet)
- Unit Number: 1
- Tag Write Type: Single Write
- Description: (empty)
- Add meter name as prefix to IO tags

Below the 'General Information' section, the 'TCP/IP' section is also highlighted with a red box and contains the following fields:

- IP Address: 172.18.2.45
- Port Number: 502

Red text annotations are present: 'Choose correct driver' is placed over the 'Meter Type' dropdown, and 'Set IP and port number' is placed over the 'TCP/IP' section.

Step2-3: Add tag

The screenshot shows the Advantech TagLink Studio interface. The main window displays a project tree on the left under 'TrainingKit' with a sub-tree for 'Tony3600-3'. The central area shows a table of tags with columns for Name, Data Type, Address, Signal Reverse, Start Bit, Length, Initial Value, and Description. The 'New Tag' dialog box is open, showing the 'Basic' tab. The fields in the dialog box are: Name: DI2, Data Type: Discrete, Address: 00003, Signal Reverse: False, Start Bit: 0, Length(bit): 1, Initial Value: 0, and Description: (empty). A red box highlights the Name, Data Type, Address, and Signal Reverse fields. The text 'Add tag' is written in red next to the dialog box.

Step2-4: Check status of tags from TCP device

ADAM-3600-C2G root

Tags

I/O Status

(Main) ADAM-3600-C2G

(Slot 1) ADAM-3624

System Information

Configuration

IO Tag

Tag Name: Tag Value:

Tag	Value	Quality	Timestamp
Slot1:AO.0	0.00	Comm Error	Thu Jan 01 1970 08:00:00 GMT+0800 (台北標準時間)
Slot1:AO.1	0.00	Comm Error	Thu Jan 01 1970 08:00:00 GMT+0800 (台北標準時間)
Slot1:AO.2	0.00	Comm Error	Thu Jan 01 1970 08:00:00 GMT+0800 (台北標準時間)
Slot1:AO.3	0.00	Comm Error	Thu Jan 01 1970 08:00:00 GMT+0800 (台北標準時間)
DI0	1	Good	Sun Aug 03 2014 03:20:54 GMT+0800 (台北標準時間)
DI1	1	Good	Sun Aug 03 2014 03:20:54 GMT+0800 (台北標準時間)
DI2	1	Good	Sun Aug 03 2014 03:20:54 GMT+0800 (台北標準時間)
DO0	1	Good	Sun Aug 03 2014 03:20:54 GMT+0800 (台北標準時間)
AC	1067.00	Good	Sun Aug 03 2014 03:20:54 GMT+0800 (台北標準時間)
KW	18.00	Good	Sun Aug 03 2014 03:20:54 GMT+0800 (台北標準時間)

6. Datalog

Step1: Tick enable and USB

The screenshot shows the Advantech TagLink Studio software interface. The left pane displays the Project Configuration tree with the following structure:

- TrainingKit
 - Tony3600-3
 - Data Center
 - Data Logger
 - Periodic Logger
 - Service
 - Event Manager
 - Connectivity
 - System

Red boxes highlight the 'Periodic Logger' and 'Service' items in the tree, and the 'Enable' and 'USB Disk Backup' checkboxes in the configuration panel. Orange arrows point from these checkboxes to the 'Period(s)' and 'Max Days(d)' input fields. A red text overlay reads: "Set saving period and maximum day".

The configuration panel for 'Periodic Logger(Tony3600)*' includes the following settings:

- Enable
- USB Disk Backup
- Storage Path: SD
- Period(s): 1
- Max Days(d): 7

A warning message states: "It is about 0 MB free space needed in SD Card to save historical data." Below the configuration fields is a table with columns for 'Tag Name' and 'Description'.

Tag Name	Description
Double click to edit	

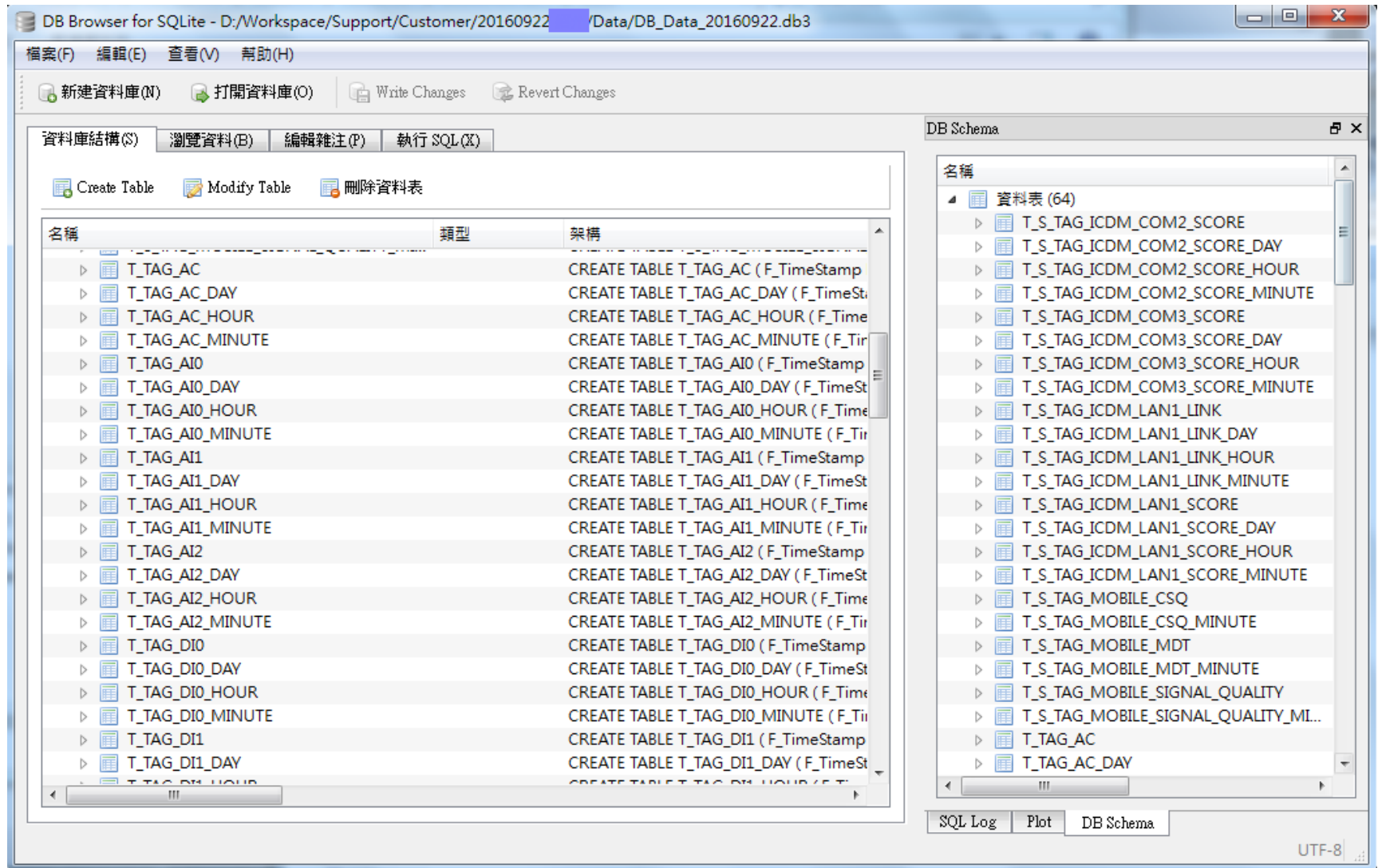
Step2: Double click to choose tags to save

The screenshot shows the Advantech TagLink Studio interface. The main window displays a project configuration tree on the left and a central configuration area. A 'Select Tag' dialog box is open, showing a tree view of tags. The 'BoardIO' category is expanded, showing a list of tags with checkboxes. The 'Slot1' category is also expanded, showing a list of tags with checkboxes. A red box highlights the 'Select Tag' dialog, and a red arrow points to the 'Tick tags to save into datalog' instruction.

Tick tags to save into datalog

Tag Name	
BoardIO:AI.0	
BoardIO:AI.1	
BoardIO:AI.2	
BoardIO:AI.3	
BoardIO:AI.4	
BoardIO:AI.5	
BoardIO:AI.6	
BoardIO:AI.7	
Double click to edit	

Step3: Data format is SQLite (*.db3)



7. Setting MODBUS Server

Step1: Choose Service > MODBUS Server

The screenshot displays the Advantech TagLink Studio software interface. The main window is titled "Advantech TagLink Studio" and features a menu bar with "Project" and "Help". Below the menu bar is a toolbar with icons for "Create Project", "Open Project", "Close Project", "Save", "Project Download", "Export To SD Card", "Show Tag Count", "Import I/O tags to Excel", and "Export I/O tags from Excel".

The interface is divided into two main sections. On the left is the "Project Configuration" tree, which shows a hierarchy of components under "TrainingKit":

- TrainingKit
 - Tony3600-3
 - Data Center
 - Data Logger
 - Service
 - Modbus Server** (highlighted with a red box and an orange arrow)
 - DNP3 Outstation
 - WASCAD
 - IEC-104
 - Event Manager
 - Connectivity
 - Active Connection
 - OpenVPN
 - System
 - Network Setting
 - LED Setting
 - Time Sync Setting
 - GPS Setting
 - SMTP Setting

On the right is the configuration panel for the selected "Modbus Server(Tony3600)". It includes "Apply" and "Discard" buttons. The configuration is split into two columns:

- Modbus TCP** (checked):
 - Port Number: []
 - Max Users: []
 - Idle Time(s): []
- Modbus RTU** (unchecked):
 - Device ID: []
 - Port: []
 - Baud Rate: []
 - Data Bit: []
 - Stop Bit: []
 - Parity: []

At the bottom of the configuration panel is a table with the following columns: "Tag Name", "Tag Type", "Address", "Modbus Address", "Data Type", "Little...", and "Rever...". The table contains one row with the text "* Double click to edit".

Step2: Choose TCP or Serial Server

The screenshot shows the Advantech TagLink Studio interface. The 'Project Configuration' pane on the left shows a tree view with 'TrainingKit' expanded to 'Tony3600-3', which includes 'Data Center', 'IO Tag', 'System Tag', 'Calculation Tag', 'User Tag', 'Data Logger', 'Periodic Logger', 'Service', 'Modbus Server', 'DNP3 Outstation', 'WASCADA', 'IEC-104', 'Event Manager', 'Connectivity', and 'System'. The 'Modbus Server' is selected, and the 'M Modbus Server(Tony3600)' configuration window is open. The 'Apply' button is highlighted. The configuration window has two sections: 'Modbus TCP' (checked) and 'Modbus RTU' (unchecked). The 'Modbus TCP' section has fields for 'Port Number' (502), 'Max Users' (4), and 'Idle Time(s)' (120). The 'Modbus RTU' section has fields for 'Device ID', 'Port', 'Baud Rate', 'Data Bit', 'Stop Bit', and 'Parity'. The text 'MODBUS/TCP' is overlaid in red on the 'Modbus TCP' section, and 'MODBUS/RTU' is overlaid in red on the 'Modbus RTU' section. Below the configuration window is a table of tags.

Tag Name	Tag Type	Address	Modbus Address	Data Type	Little...	Rever...
BoardIO:AI.0	AI	0001	30001	Unsigned Integer (...)	<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:AI.1	AI	0002	30002	Unsigned Integer (...)	<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:AI.2	AI	0003	30003	Unsigned Integer (...)	<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:DI.0	DI	0001	10001		<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:DI.1	DI	0002	10002		<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:DI.2	DI	0003	10003		<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:DO.0	DO	0001	00001		<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:DO.1	DO	0002	00002		<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:DO.2	DO	0003	00003		<input type="checkbox"/>	<input type="checkbox"/>

Step3: Double click to add tags

The screenshot displays the Advantech TagLink Studio interface. On the left, the Project Configuration tree shows a project named 'TrainingKit' containing a 'Modbus Server' component. An orange arrow points to the 'Modbus Server' icon. The main window shows the configuration for 'M Modbus Server(Tony3600)*'. The 'Port Number' is 502, 'Max Users' is 4, and 'Idle Time(s)' is 120. Below these settings is a table of tags:

Tag Name	Tag Type	
BoardIO:AI.2	AI	000
BoardIO:DI.0	DI	000
BoardIO:DI.1	DI	000
BoardIO:DI.2	DI	000
BoardIO:DO.0	DO	000
BoardIO:DO.1	DO	000
BoardIO:DO.2	DO	000
Slot1:AO.0	AO	
Slot1:AO.1	AO	
Double click to e...		

A 'Select Tag' dialog box is open, showing a tree view of available tags under 'I/O' > 'BoardIO'. A red box highlights the following tags:

- BoardIO:AI.0
- BoardIO:AI.1
- BoardIO:AI.2

Below the tree view, a dropdown menu for 'Data Type' is open, showing the following options:

- AI
- AO
- DI
- DO
- Float (32 bits)
- Unsigned Integer (16 bits)
- Unsigned Integer (32 bits)
- Unsigned Integer (64 bits)
- Signed Integer (16 bits)
- Signed Integer (32 bits)
- Signed Integer (64 bits)
- Float (32 bits)

Step4: Check parameters of tags

M Modbus Server(Tony3600)* x

Apply Discard

Port Number: 502
Max Users: 4
Idle Time(s): 120

Device ID:
Port:
Baud Rate:
Data Bit:
Stop Bit:
Parity:

Tag Name	Tag Type	Address	Modbus Address	Data Type	Little...	Rever...
BoardIO:AI.0	AI	0001	30001	Unsigned Integer (...)	<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:AI.1	AI	0002	30002	Unsigned Integer (...)	<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:AI.2	AI	0003	30003	Unsigned Integer (...)	<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:DI.0	DI	0001	10001		<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:DI.1	DI	0002	10002		<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:DI.2	DI	0003	10003		<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:DO.0	DO	0001	00001		<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:DO.1	DO	0002	00002		<input type="checkbox"/>	<input type="checkbox"/>
BoardIO:DO.2	DO	0003	00003		<input type="checkbox"/>	<input type="checkbox"/>
Slot1:AO.0	AO	0001	40001	Unsigned Integer (...)	<input type="checkbox"/>	<input type="checkbox"/>
Slot1:AO.1	AO	0002	40002	Unsigned Integer (...)	<input type="checkbox"/>	<input type="checkbox"/>

Step5: Use MODSCAN to check

The screenshot shows the Advantech TagLink Studio interface. The main window displays a project configuration tree on the left and a data table at the bottom. A modal window titled "ModScan32 - ModSca1" is open, showing the configuration for a Modbus device. The configuration includes:

- Address: 0001
- Device Id: 1
- Length: 3
- MODBUS Point Type: 01: COIL STATUS
- Number of Polls: 37
- Valid Slave Responses: 37

The ModSca1 window also displays the following data:

```
00001: <1>
00002: <0>
00003: <0>
```

The data table at the bottom of the TagLink Studio window is as follows:

BoardID:DI.2	DI	0003	10003		
BoardID:DO.0	DO	0001	00001		
BoardID:DO.1	DO	0002	00002		
BoardID:DO.2	DO	0003	00003		

Step6:Use MODSCAN to check

Tag	Value	Quality	Timestamp
Slot1:AO.0	0.00		
Slot1:AO.1	0.00		
Slot1:AO.2	0.00		
Slot1:AO.3	0.00		
DI0	0		
DI1	0		
DI2	0		
DO0	0		
AC	1062.00		
KW	18.00		

Showing 21 to 30 of 30 rows 10 records per page

The screenshot shows the ModScan32 - ModSca1 window. The configuration includes:
- Address: 0001
- Device Id: 1
- Length: 7
- MODBUS Point Type: 04: INPUT REGISTER
- Number of Polls: 371
- Valid Slave Responses: 371
- Reset Ctrs button

The data display shows the following values for registers 30001 through 30007:
30001: <00000> 30006: <00000>
30002: <00000> 30007: <00000>
30003: <00000>
30004: <01062>
30005: <00018>

8. Image update

Step1: IMAGE download

http://support.advantech.com/support/DownloadSRDetail_New.aspx?SR_ID=1-1JJCJRC&Doc_Source=Download

Support / Downloads / Installation /

Document No. 1-3358137864			
Date Updated	02-08-2018	Date Created	02-08-2018
Document Type	Installation	Related OS	
Related Product	ADAM-3600		

ADAM-3600 2.1.1 Image (for online updating)

Solution : ADAM-3600 2.1.1 Image (for online updating)

Download File	Released Date	Download Site	
ADAM3600_Linux_TagLink_2.1.1_Release_#666.bin	2018-02-08	Primary	Secondary

Step2: Go to configuration→IMAGE update

The screenshot displays the configuration interface for the ADAM-3600-C2G device. The left sidebar contains navigation options: Tags, I/O Status, (Main) ADAM-3600-C2G, (Slot 1) ADAM-3624, System Information, and Configuration. The main area is titled 'Configuration' and has three tabs: 'Time & Date', 'Control', and 'Image Update'. The 'Image Update' tab is active, showing the title 'Image Update' and the instruction 'Choose image file(.bin)'. A file named 'ADAM3600_Linux_TagLink_1.3.0_Beta.bin' is listed with a 'Load File' button. A progress bar indicates 'Downloading: 25%'. An 'Upload' button is also present. The bottom section is titled 'System Version Info' with a 'download' link.

Online Monitor(Tony3600) x

ADAM-3600-C2G root

Tags

I/O Status

(Main) ADAM-3600-C2G

(Slot 1) ADAM-3624

System Information

Configuration

Configuration

Time & Date Control **Image Update**

Image Update Choose image file(.bin)

ADAM3600_Linux_TagLink_1.3.0_Beta.bin

Load File

Upload

Downloading: 25%

System Version Info download

Step3: After upload the file, please choose update

The screenshot shows the 'Configuration' page for the device 'ADAM-3600-C2G'. The user is logged in as 'root'. The left sidebar contains navigation options: Tags, I/O Status, (Main) ADAM-3600-C2G, (Slot 1) ADAM-3624, System Information, and Configuration. The main content area is titled 'Configuration' and has three tabs: 'Time & Date', 'Control', and 'Image Update'. The 'Image Update' tab is active. Below the tabs, the file 'ADAM3600_Linux_TagLink_1.3.0_Beta.bin' is listed. There are three buttons: 'Load File', 'Upload', and 'Update'. The 'Update' button is highlighted with a red box, and an orange arrow points to it. A blue progress bar at the bottom of the file area indicates 'Upload Complete'. Below the progress bar, there is a message 'Please check version info' and a 'download' link.

Step4: Check image version

Configuration > Image Upload

The screenshot shows the configuration interface for an ADAM-3600-C2G device. The left sidebar contains navigation options: Tags, I/O Status, (Main) ADAM-3600-C2G, (Slot 1) ADAM-3624, System Information, and Configuration. The main area displays the 'System Version Info' section with a 'download' link. Below this is a table with the following data:

Item	RTU Version Info	Current Version Info	Description
ICDMANAGER-icdm.bin	01010147	-	0xc0
rootfs.tar.gz	ADAM-3600-C2GL1A1E image version 1.3.0 Beta Jan 17 2017	-	

Below the table, it indicates 'Showing 11 to 12 of 12 rows' and a pagination control with page numbers 1 and 2, where 2 is the active page.

Below the table is the 'App & Lib Version Info' section.