

Advantech AE Technical Share Document

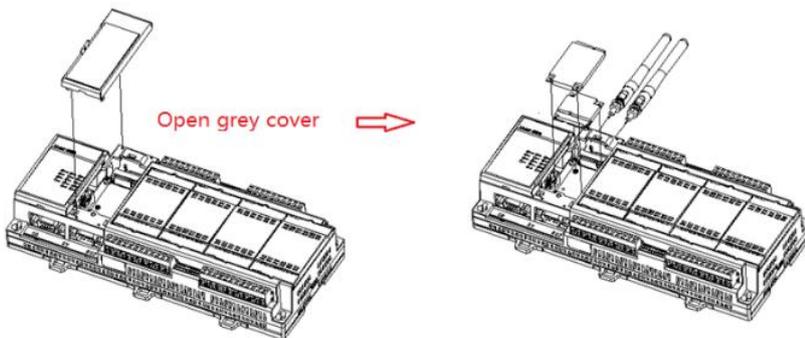
Date	2018/5/11	SR#	1-3078702411
Category	■FAQ □SOP	Related OS	N/A
Abstract	How to set up 3G SIM card in ADAM-3600?		
Keyword	3G, SIM card		
Related Product	ADAM-3600		

■ **Problem Description:**

This document explains how to set up 3G SIM card in ADAM-3600.

■ **Answer:**

Below image illustrates how to install 3G module.



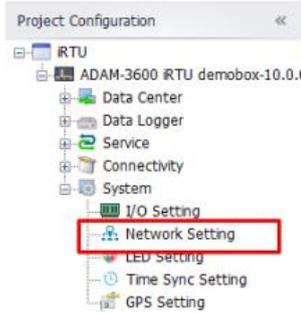
There are two wireless expansion interfaces under the gray cover, which supports two Mini-PCle ports, which support insert wireless LAN card. Two overlapping network cards can be installed. The lower port supports half-sized card while the upper port supports full-size card. Two screws are needed to install each card, and then the antenna could be installed.



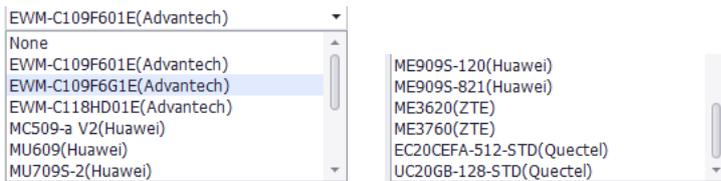
The red block indicates the position where the 3G SIM card is installed.

The green block indicates the location of 3G module.

1. Choose Network setting in Project Configuration.



2. Select the Device type based on your 3G module.



3. Select the Operator/ telecom vender.

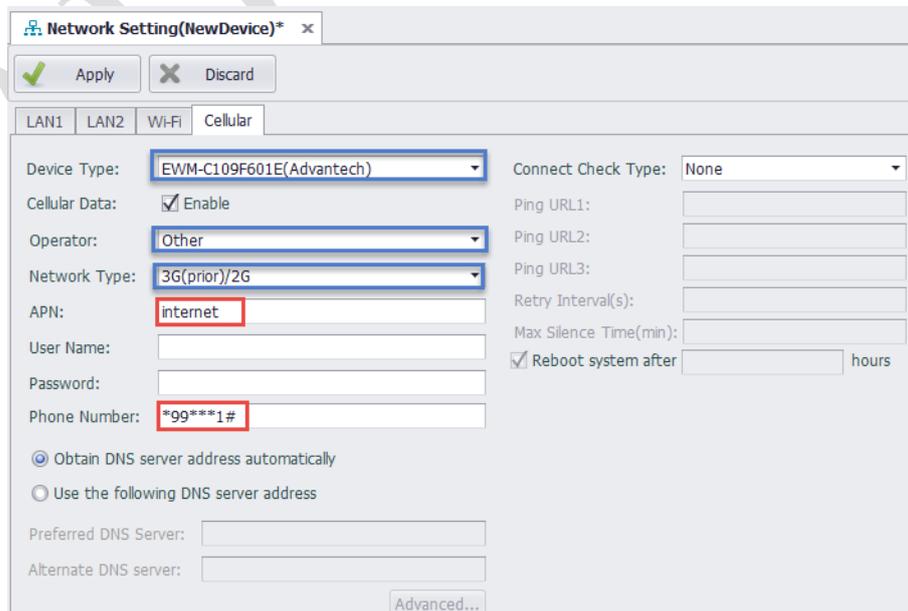
If your telecom vender is not in the list, please choose "Other."



4. Select the network type (2G/3G)



5. Fill in APN (Access Point Name) and Phone Number following your telecom vender's instruction. Below image is only for your reference.



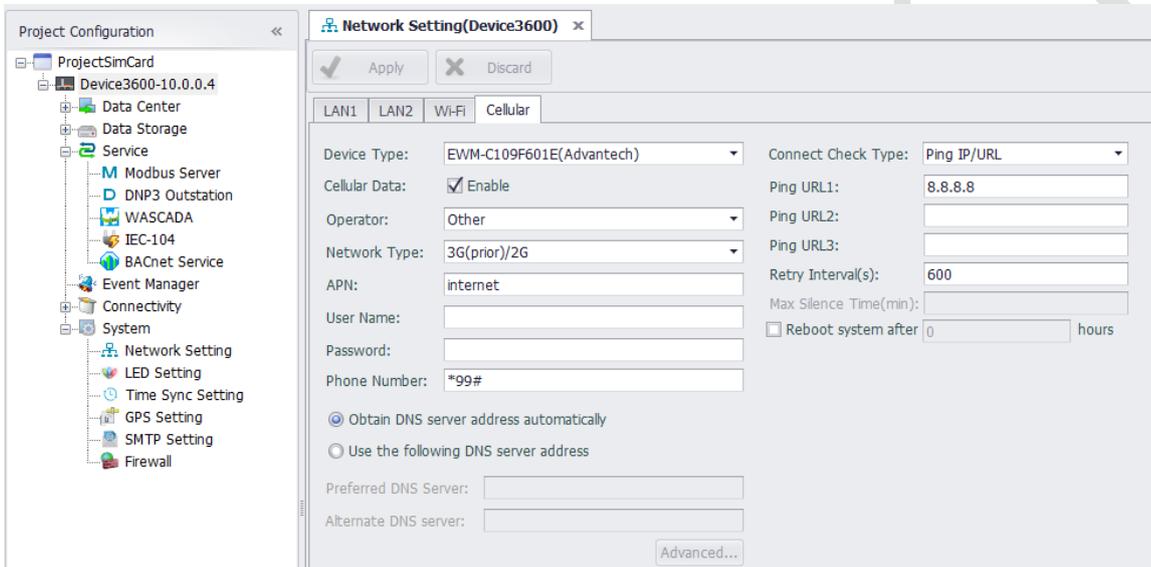
Reference: APN and Dial Number of telecom vendors in Taiwan.

Telecommunications Vender	APN	Dial Number
Chunghwa Telecom (CHT)	internet	*99#
Taiwan Mobile (TWM)	internet	*99#
Far Eas Tone (FET)	internet	*99#

6. Save and download the project.

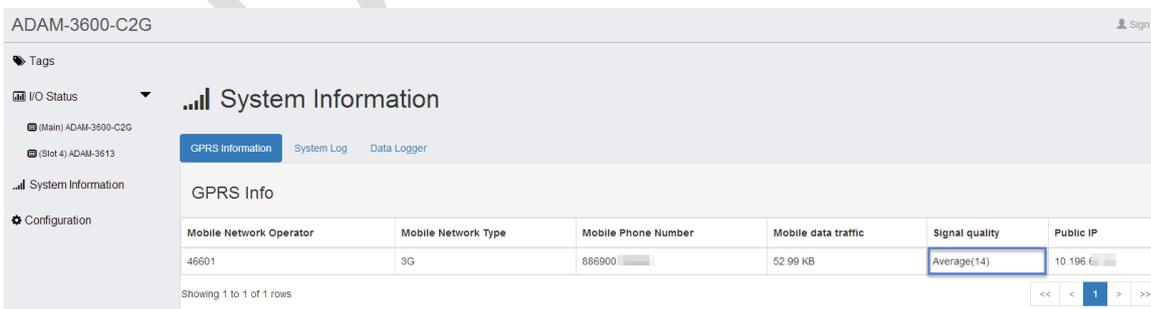
[Optional]

7. If the disconnection results from telecom vendor periodic kicking off the device (to save their total bandwidth), you could set **Connect Check Type** as **Ping IP/URL**, and set the **Retry Interval**.



[Result]

After finishing setup, you could check 3G module successfully works by observing **Signal quality**.



You could also check the **#MOBILE_SIGNAL_QUALITY** in **System Tag**.

Tag	Value	Quality	Timestamp
#SYS_NODE_ID	4	Good	Mon Nov 06 2017 10:08:23 GMT+0800 (台北標準時間)
#SYS_COM_COUNT	3	Good	Mon Nov 06 2017 10:08:23 GMT+0800 (台北標準時間)
#SYS_LAN_COUNT	2	Good	Mon Nov 06 2017 10:07:40 GMT+0800 (台北標準時間)
#MOBILE_SIM	1.00	Good	Mon Nov 06 2017 10:07:40 GMT+0800 (台北標準時間)
#MOBILE_IP	10.196.0.1	Good	Mon Nov 06 2017 10:07:40 GMT+0800 (台北標準時間)
#MOBILE_MNO	46601	Good	Mon Nov 06 2017 10:07:40 GMT+0800 (台北標準時間)
#MOBILE_MNT	3G	Good	Mon Nov 06 2017 10:05:56 GMT+0800 (台北標準時間)
#MOBILE_MDT	704.98 KB	Good	Mon Nov 06 2017 10:04:47 GMT+0800 (台北標準時間)
#MOBILE_MPX	886900	Good	Mon Nov 06 2017 10:04:47 GMT+0800 (台北標準時間)
#MOBILE_SIGNAL_QUALITY	Average	Good	Mon Nov 06 2017 10:08:24 GMT+0800 (台北標準時間)

[Static IP SIM card]

If the customer uses static IP SIM card, there may be provided one user account and password by the telecom vendor.

To use Password Authentication Protocol (PAP), which is an authentication for PPP (Point to Point Protocol) in Linux OS, please add "PAP:" before the APN provided by the telecom vendor. For example, if APN is "internet", we key in "PAP:internet" for fixed IP SIM card setting.

Network Setting(ADAM-3600_John_IEC)*

Apply Discard

LAN1 LAN2 Wi-Fi Cellular

Device Type: EWM-C109F601E(Advantech) Connect Check Type: None

Cellular Data: Enable Ping URL1:

Operator: Other Ping URL2:

Network Type: 3G(prior)/2G Ping URL3:

APN: PAP:internet Retry Interval(s): 600

User Name: myUserName Max Silence Time(min): 90

Password: myPassword Reboot system after 0

Dial Number: *99#

Obtain DNS server address automatically

Use the following DNS server address

Preferred DNS Server:

Alternate DNS server:

Above settings is only for your reference. Please contact your ISP for the setting details.