

Advantech AE Technical Share Document

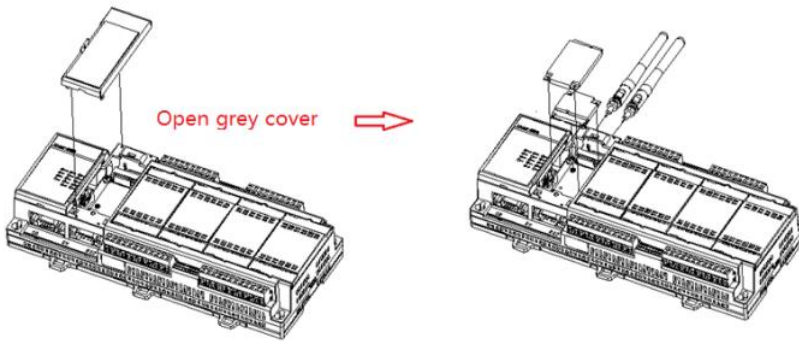
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|-----------------|---|------------|--------------|
| Date | 2018/5/11 | SR# | 1-3078702411 |
| Category | ■FAQ □SOP | Related OS | N/A |
| Abstract | How to set up 3G SIM card in ADAM-3600? | | |
| Keyword | 3G, SIM card | | |
| Related Product |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



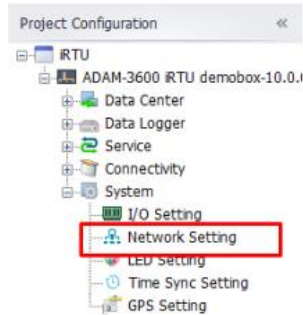
There are two wireless expansion interfaces under the gray cover, which supports two Mini-PCIe ports, which support insert wireless LAN card. Two overlapping network cards can be installed. The lower port supports half-sized card while the upper port supports full-size card. Two screws are needed to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



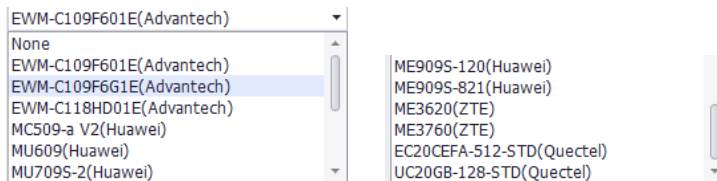
The red block indicates the position where the 3G SIM card is installed.

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.

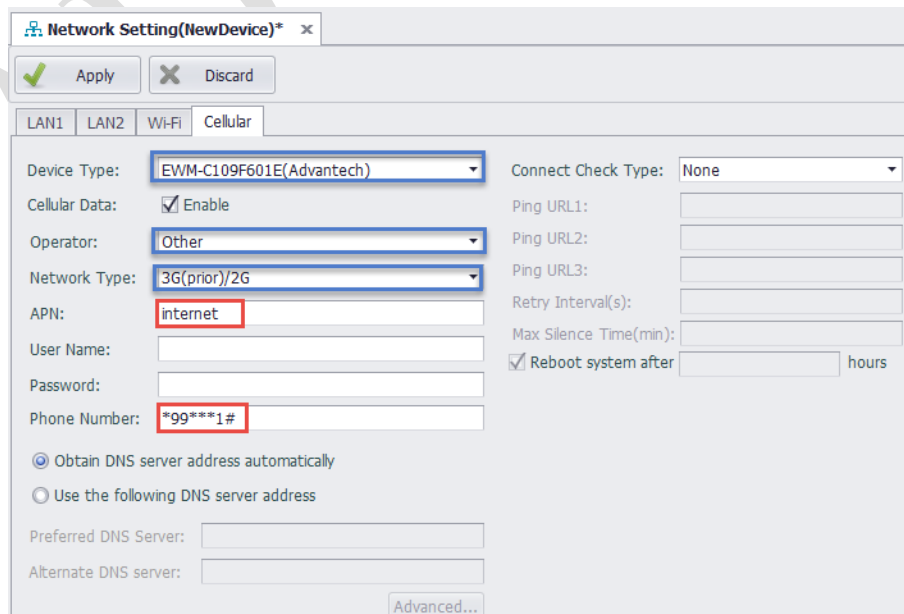
If your telecom vender is not in the list, please choose "Other."



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 venders 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**.

Project Configuration

ProjectSimCard

- Device3600-10.0.0.4
 - Data Center
 - Data Storage
 - Service
 - Modbus Server
 - DNP3 Outstation
 - WASCADA
 - IEC-104
 - BACnet Service
 - Event Manager
 - Connectivity
 - System
 - Network Setting
 - LED Setting
 - Time Sync Setting
 - GPS Setting
 - SMTP Setting
 - Firewall

Network Setting(Device3600)

Apply Discard

LAN1 LAN2 Wi-Fi Cellular

Device Type: EWM-C109F601E(Advantech)

Cellular Data: ☒ Enable

Operator: Other

Network Type: 3G(prior)/2G

APN: internet

User Name:

Password:

Phone Number: *99#

Connect Check Type: Ping IP/URL

Ping URL1: 8.8.8.8

Ping URL2:

Ping URL3:

Retry Interval(s): 600

Max Silence Time(min):

☐ Reboot system after 0 hours

☒ Obtain DNS server address automatically

☐ Use the following DNS server address

Preferred DNS Server:

Alternate DNS server:

Advanced...

[Result]

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

ADAM-3600-C2G

Tags

IO Status

(Main) ADAM-3600-C2G

(Slot 4) ADAM-3613

System Information

Configuration

System Information

GPRS Information System Log Data Logger

GPRS Info

| Mobile Network Operator | Mobile Network Type | Mobile Phone Number | Mobile data traffic | Signal quality | Public IP |
|-------------------------|---------------------|---------------------|---------------------|----------------|-----------|
| 46601 | 3G | 886900 | 52.99 KB | Average(14) | 10.196.6 |

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

ADAM-3600-C2G

Tags

IO Status

(Main) ADAM-3600-C2G

(Slot 4) ADAM-3613

System Information

Configuration

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 | 10.196.6.1 | 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_MPN | 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) |

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[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)

Cellular Data: ☒ Enable

Operator: Other

Network Type: 3G(prior)/2G

APN: PAP:internet

User Name: myUserName

Password: myPassword

Dial Number: *99#

Connect Check Type: None

Ping URL1:

Ping URL2:

Ping URL3:

Retry Interval(s): 600

Max Silence Time(min): 90

☐ Reboot system after 0

☒ 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.