

## MT200A2EW-H5 basic hardware and software setup information:

### Hardware Setup:

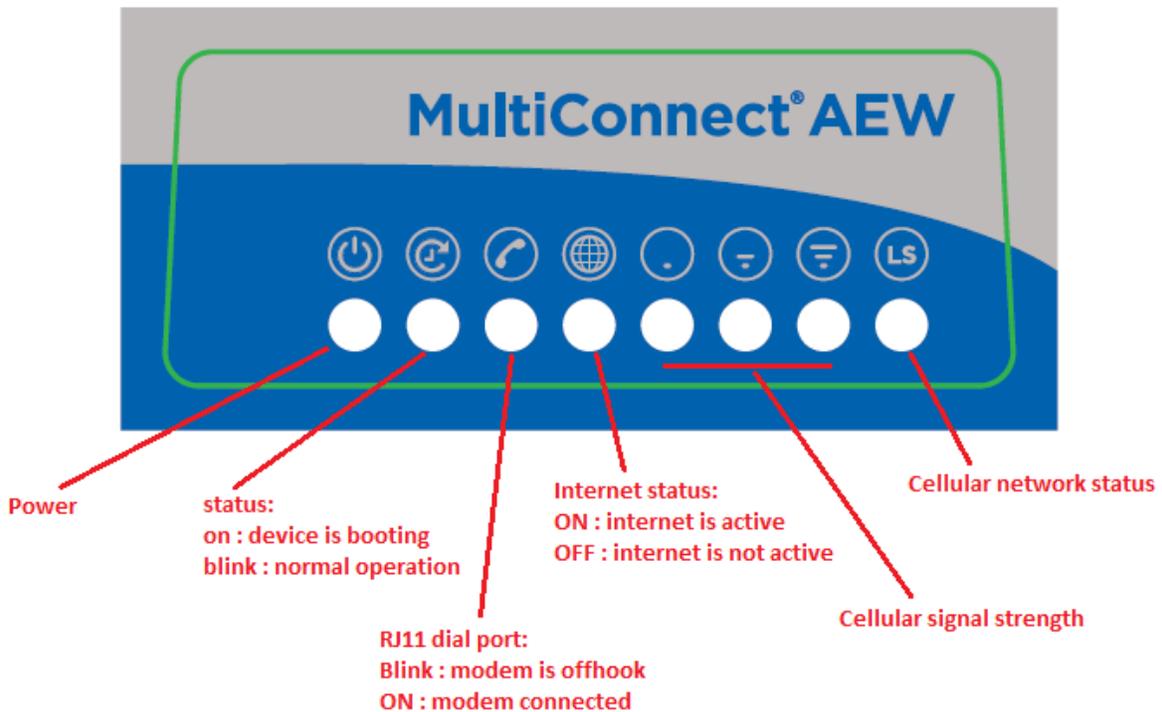
Install SIM card on the front



Connect Ethernet cable, Cellular Antenna, RJ11 phone cable and power supply on the back

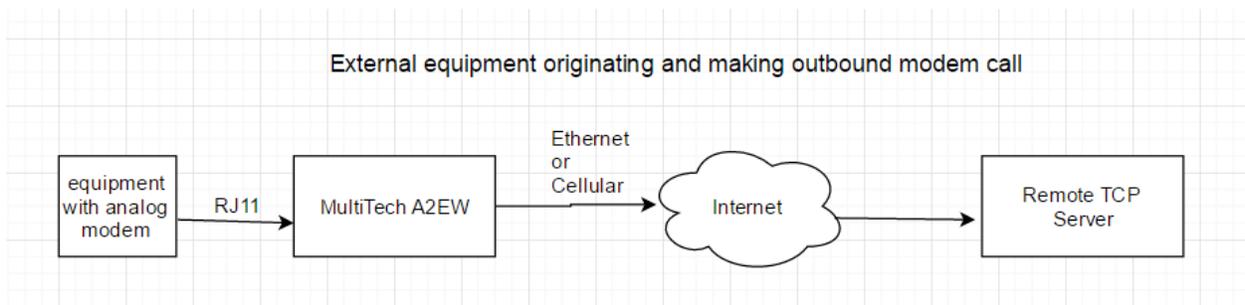


## LEDs Information:



## Software setup information:

For use case #1 and #2 below



### Use case #1

External analog modem equipment/device originating and calling into A2EW and using 3G cellular as WAN link to access the internet to connect to remote TCP server

- Setup PC Ethernet port using DHCP
- connect Ethernet cable between PC and A2EW

- install antenna onto A2EW (see hardware installation above)
- insert working SIM card to A2EW (see hardware installation above)
- Insert and install power supply and it will turn on A2EW
- Wait for 90 seconds for A2EW to boot up and PC should automatically obtain an IP address 192.168.2.100 via DHCP server from A2EW

- On the PC web browser, enter IP address <https://192.168.2.1>, username = admin and password = admin to login to A2EW



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MultiConnect® A2EW 2.0.2

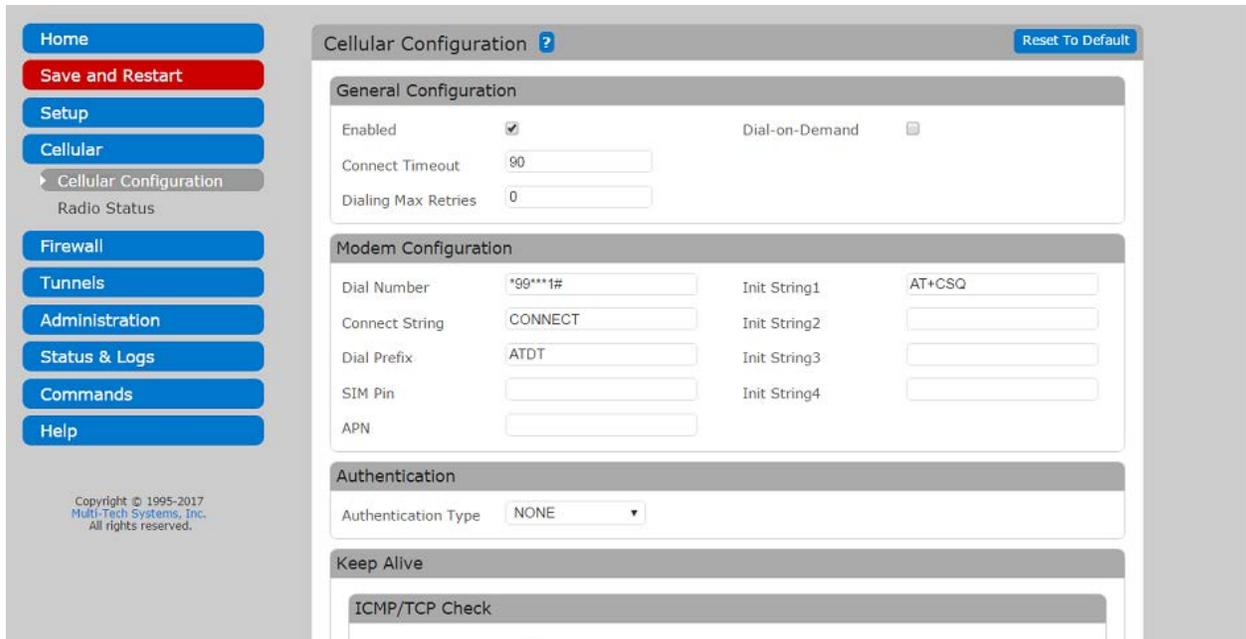
Username:

Password:

Login

- Setup Cellular WAN connection. If first time login, exit out of Wizard setup and click on Cellular → Cellular configuration and enter the APN that is assigned to your SIM card.

Click Submit at the bottom to save the change



Cellular Configuration ? Reset To Default

**General Configuration**

Enabled  Dial-on-Demand

Connect Timeout

Dialing Max Retries

**Modem Configuration**

Dial Number  Init String1

Connect String  Init String2

Dial Prefix  Init String3

SIM Pin

Init String4

APN

**Authentication**

Authentication Type

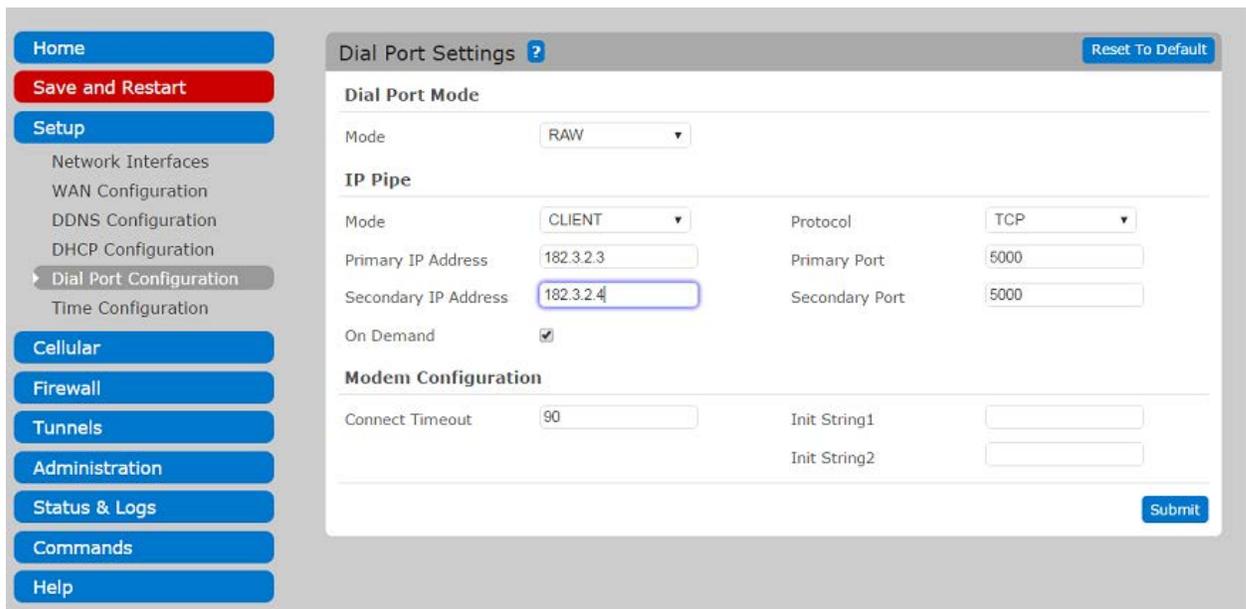
**Keep Alive**

ICMP/TCP Check

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- Setup RJ11 dial port. Click on Setup → Dial Port Configuration. Setup port as RAW mode, TCP client, remote TCP server IP addresses and port numbers

Click Submit at the bottom to save the change



Dial Port Settings ? Reset To Default

**Dial Port Mode**

Mode

**IP Pipe**

Mode  Protocol

Primary IP Address  Primary Port

Secondary IP Address  Secondary Port

On Demand

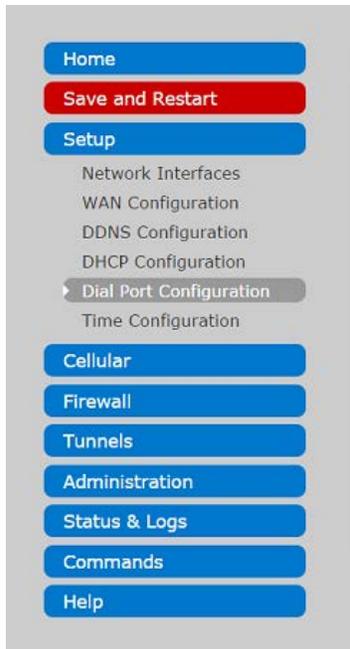
**Modem Configuration**

Connect Timeout  Init String1

Init String2

Submit

- Click Save and Restart. It will take A2EW around 90 seconds to restart and be ready



- Login to A2EW again and check Cellular connection. Make sure cellular is up and it is showing a valid cellular IP address and an active cellular connection

Common		Ethernet	
Model Number	MT200A2EW-H5	Type	LAN
Serial Number	123456789	Mode	Static
IMEI	356136074511710	MAC Address	00:08:00:12:34:56
Firmware	2.0.2	IP Address	192.168.2.1
Current Time	01/10/2017 22:26:20	Mask	255.255.255.0
Up Time	0:01:17	Gateway	Not Acquired
WAN Transport	Cellular	DNS	Not Acquired

Cellular	
State	PPP Link is up
Signal	
Connected	0:00:00
IPv4 Address	155.163.85.125
Roaming	No
Phone Number	6512694391
Tower	5792AF5

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Last updated: 04:26:27

- From your external modem device/equipment, it can originate/dial a call and A2EW will automatically answer. After both modems are connected, A2EW will automatically connect to the remote TCP server based on IP address and TCP port number that are configured. Now the external modem device will have direct communication with the remote TCP server and it can perform data exchange between the external modem device and remote TCP server.

## Use case #2

External analog modem equipment/device originating and calling into A2EW and using ETHERNET as WAN link to access the internet to connect to remote TCP server

- Setup PC Ethernet port using DHCP
- connect Ethernet cable between PC and A2EW
- Insert and install power supply and it will turn on A2EW
- Wait for 90 seconds for A2EW to boot up and PC should automatically obtain an IP address 192.168.2.100 via DHCP server from A2EW

- On the PC web browser, enter IP address <https://192.168.2.1>, username = admin and password = admin to login to A2EW



- Setup Cellular WAN connection. If first time login, exit out of Wizard setup and click on Setup → DHCP configuration and UNCHECK Enabled. This will disable DHCP server and setup Ethernet as WAN internet connection

Click Submit at the bottom to save the change

- Setup IP address so Ethernet work as WAN. Click on Setup → Network Interfaces, click on eth0 Pencil icon to edit Ethernet port with proper IP address, mask, gateway and DNS information.

Name	Type	Mode	IP Address	Options
eth0	WAN	Static	192.168.2.1/24	
ppp0	WAN	PPP		

- Setup RJ11 dial port. Click on Setup → Dial Port Configuration. Setup port as RAW mode, TCP client, remote TCP server IP addresses and port numbers

Click Submit at the bottom to save the change

Home

Save and Restart

Setup

- Network Interfaces
- WAN Configuration
- DDNS Configuration
- DHCP Configuration
- Dial Port Configuration
- Time Configuration

Cellular

Firewall

Tunnels

Administration

Status & Logs

Commands

Help

### Dial Port Settings

Reset To Default

**Dial Port Mode**

Mode: RAW

**IP Pipe**

Mode: CLIENT Protocol: TCP

Primary IP Address: 182.3.2.3 Primary Port: 5000

Secondary IP Address: 182.3.2.4 Secondary Port: 5000

On Demand:

**Modem Configuration**

Connect Timeout: 90 Init String1:

Init String2:

Submit

- Click Save and Restart. It will take A2EW around 90 seconds to restart and be ready

Home

Save and Restart

Setup

- Network Interfaces
- WAN Configuration
- DDNS Configuration
- DHCP Configuration
- Dial Port Configuration
- Time Configuration

Cellular

Firewall

Tunnels

Administration

Status & Logs

Commands

Help

**Note:** Since A2EW Ethernet port is setup as WAN, make sure your Ethernet connection on A2EW is properly connected to internet router in order to access the internet. Your PC will need to be on the same subnet as the A2EW Ethernet IP address in order for you to web login to A2EW

- Login to A2EW again and check Ethernet WAN connection. Make sure Ethernet is up and it is showing a valid IP address and an active Ethernet connection

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Device Information

Common		Ethernet	
Model Number	MT200A2EW-H5	Type	WAN
Serial Number	123456789	Mode	Static
IMEI	356961070988681	MAC Address	00:08:00:12:34:56
Firmware	2.0.4	IP Address	192.168.2.1
Current Time	02/28/2017 13:43:25	Mask	255.255.255.0
Up Time	0:01:11	Gateway	Not Acquired
WAN Transport	None	DNS	Not Acquired

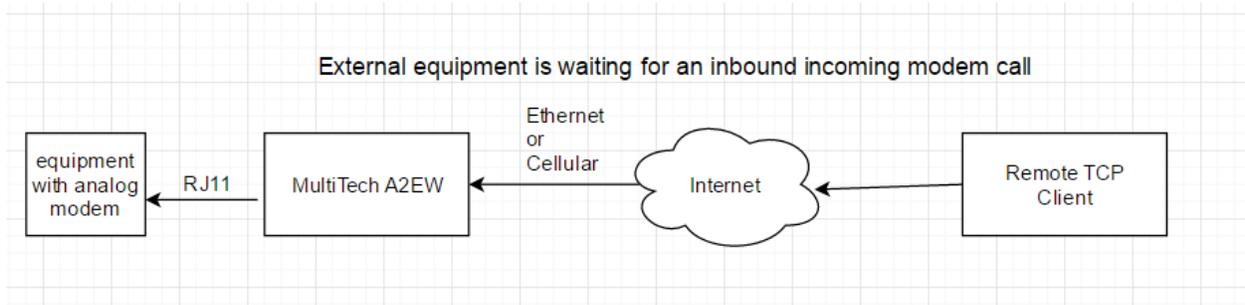
  

Cellular	
State	PPP Link is down
Signal	
Connected	0:00:00
IPv4 Address	Not Acquired
Roaming	No
Phone Number	6512694391
Tower	"4E64B11"

Last updated: 07:43:29

- From your external modem device/equipment, it can originate/dial a call and A2EW will automatically answer. After both modems are connected, A2EW will automatically connect to the remote TCP server based on IP address and TCP port number that are configured. Now the external modem device will have direct communication with the remote TCP server and it can perform data exchange between the external modem device and remote TCP server.

### For use case #3 and #4 below



### Use case #3

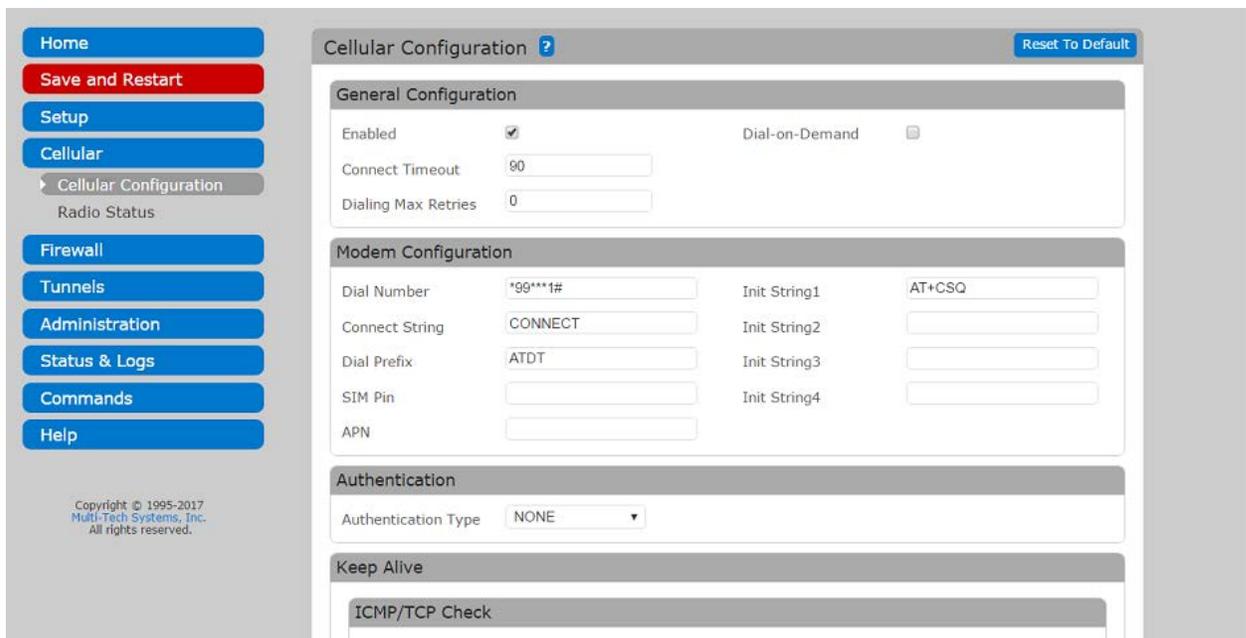
**External analog modem equipment/device is waiting for a call and answering. Setup with 3G cellular as WAN link to access the internet and require static IP in order for remote TCP client to connect**

- Setup PC Ethernet port using DHCP
  - connect Ethernet cable between PC and A2EW
  - install antenna onto A2EW (see hardware installation above)
  - insert working SIM card to A2EW (see hardware installation above)
  - Insert and install power supply and it will turn on A2EW
  - Wait for 90 seconds for A2EW to boot up and PC should automatically obtain an IP address 192.168.2.100 via DHCP server from A2EW
- 
- On the PC web browser, enter IP address <https://192.168.2.1>, username = admin and password = admin to login to A2EW



- Setup Cellular WAN connection. If first time login, exit out of Wizard setup and click on Cellular → Cellular configuration and enter the APN that is assigned to your SIM card.

Click Submit at the bottom to save the change



- Setup RJ11 dial port. Click on Setup → Dial Port Configuration. Setup port as RAW mode, TCP Server and TCP port number to listen on.

Click Submit at the bottom to save the change

The screenshot shows the A2EW web interface. On the left is a sidebar with navigation buttons: Home, Save and Restart, Setup, Network Interfaces, WAN Configuration, DDNS Configuration, DHCP Configuration, Dial Port Configuration (selected), Time Configuration, Cellular, Firewall, Tunnels, Administration, Status & Logs, Commands, and Help. The main content area is titled "Dial Port Settings" and includes a "Reset To Default" button. It is divided into three sections: "Dial Port Mode" with a "Mode" dropdown set to "RAW"; "IP Pipe" with "Mode" set to "SERVER", "Protocol" set to "TCP", and "Server Port" set to "5000"; and "Modem Configuration" with "Connect Timeout" set to "90", "On Demand" checked, and two empty "Init String" fields. A "Submit" button is located at the bottom right of the configuration area.

- Click Save and Restart. It will take A2EW around 90 seconds to restart and be ready

This screenshot shows the same navigation sidebar as the previous image. The "Save and Restart" button is highlighted in red, indicating it is the next step in the process.

- Login to A2EW again and check Cellular connection. Make sure cellular is up and it is showing a valid cellular IP address and an active cellular connection

- Home
- Save and Restart
- Setup
- Cellular
- Firewall
- Tunnels
- Administration
- Status & Logs
- Commands
- Help

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### Device Information

Common		Ethernet	
Model Number	MT200A2EW-H5	Type	LAN
Serial Number	123456789	Mode	Static
IMEI	356136074511710	MAC Address	00:08:00:12:34:56
Firmware	2.0.2	IP Address	192.168.2.1
Current Time	01/10/2017 22:26:20	Mask	255.255.255.0
Up Time	0:01:17	Gateway	Not Acquired
WAN Transport	Cellular	DNS	Not Acquired

Cellular	
State	PPP Link is up
Signal	
Connected	0:00:00
IPv4 Address	155.163.85.125
Roaming	No
Phone Number	6512694391
Tower	5792AF5

Last updated: 04:26:27

- On your external modem device/equipment, make sure it is setup and waiting for analog modem call. On the remote TCP client, it will need to originate a TCP connection to the A2EW assigned cellular static IP address and port number. After TCP connection is established between remote TCP client and A2EW TCP server, the A2EW will originate the modem call and ring the external equipment. After both modems are connected, the external modem device will have direct communication with the remote TCP client and you can perform data exchange between the external modem device and remote TCP client

#### Use case #4

External analog modem equipment/device is waiting for a call and answering. Setup with ETHERNET as WAN link to access the internet and require static IP in order for remote TCP client to connect

- Setup PC Ethernet port using DHCP
- connect Ethernet cable between PC and A2EW
- Insert and install power supply and it will turn on A2EW
- Wait for 90 seconds for A2EW to boot up and PC should automatically obtain an IP address 192.168.2.100 via DHCP server from A2EW

- On the PC web browser, enter IP address https://192.168.2.1, username = admin and password = admin to login to A2EW



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Username:

Password:

Login

- Setup Cellular WAN connection. If first time login, exit out of Wizard setup and click on Setup → DHCP configuration and UNCHECK Enabled. This will disable DHCP server and setup Ethernet as WAN internet connection

Click Submit at the bottom to save the change

- Setup IP address so Ethernet work as WAN. Click on Setup → Network Interfaces, click on eth0 Pencil icon to edit Ethernet port with proper IP address, mask, gateway and DNS information.

Name	Type	Mode	IP Address	Options
eth0	WAN	Static	192.168.2.1/24	
ppp0	WAN	PPP		

- Setup RJ11 dial port. Click on Setup → Dial Port Configuration. Setup port as RAW mode, TCP Server and TCP port number to listen on.

Click Submit at the bottom to save the change

- Click Save and Restart. It will take A2EW around 90 seconds to restart and be ready

**Note:** Since A2EW Ethernet port is setup as WAN, make sure your Ethernet connection on A2EW is properly connected to internet router in order to access the internet. Your PC will need to be on the same subnet as the A2EW Ethernet IP address in order for you to web login to A2EW

- Login to A2EW again and check Ethernet WAN connection. Make sure Ethernet is up and it is showing a valid IP address and an active Ethernet connection

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Last updated: 07:43:29

Device Information	
<b>Common</b>	
Model Number	MT200A2EW-H5
Serial Number	123456789
IMEI	356961070988681
Firmware	2.0.4
Current Time	02/28/2017 13:43:25
Up Time	0:01:11
WAN Transport	None
<b>Ethernet</b>	
Type	WAN
Mode	Static
MAC Address	00:08:00:12:34:56
IP Address	192.168.2.1
Mask	255.255.255.0
Gateway	Not Acquired
DNS	Not Acquired
<b>Cellular</b>	
State	PPP Link is down
Signal	
Connected	0:00:00
IPv4 Address	Not Acquired
Roaming	No
Phone Number	6512694391
Tower	"4E64B11"

- On your external modem device/equipment, make sure it is setup and waiting for analog modem call. On the remote TCP client, it will need to originate a TCP connection to the A2EW assigned Ethernet assigned static IP address and port number. After TCP connection is established between remote TCP client and A2EW TCP server, the A2EW will originate the modem call and ring the external equipment. After both modems are connected, the external modem device will have direct communication with the remote TCP client and you can perform data exchange between the external modem device and remote TCP client