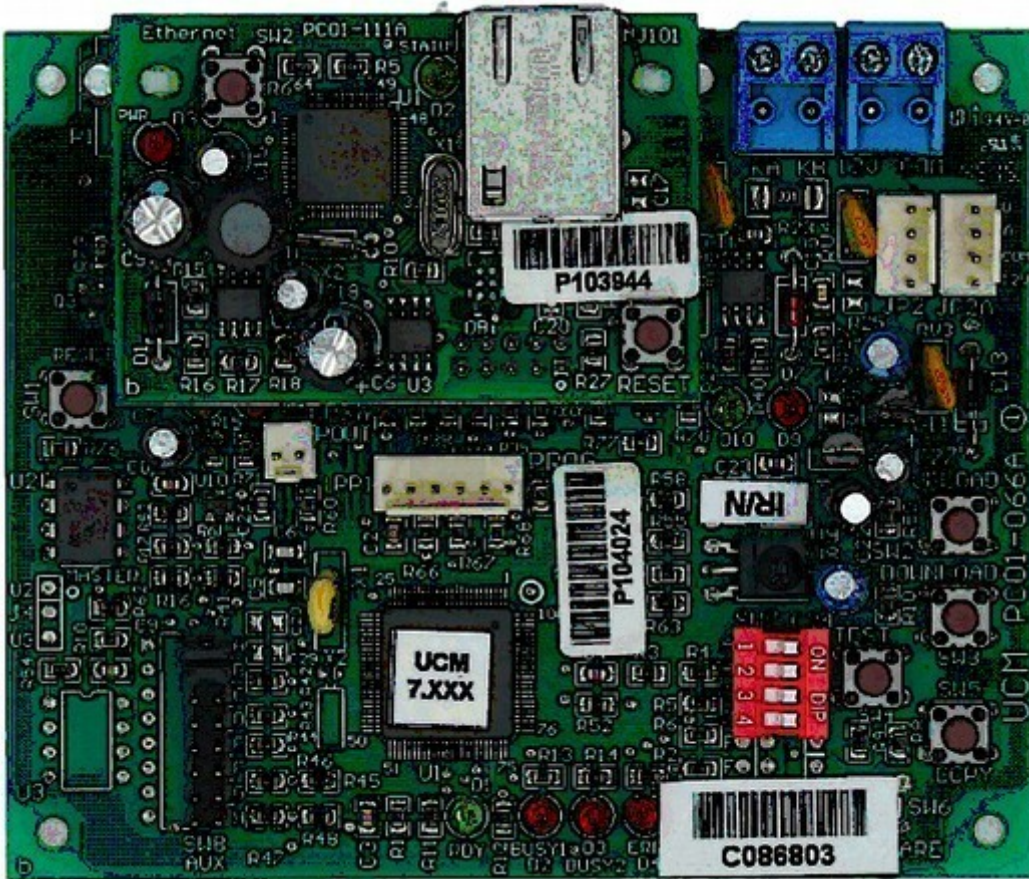


UCM/ETH03

UCM/ETH03 is used for Configurator programming as well as the iOS and Android Comfort apps.



LEDs on ETH03 submodule

- D3 RED - PWR: Remains on when power is applied
- D2 GREEN - Status - Remains on if ETH03 firmware is running

If either D2 or D3 is off, re-initialise ETH03 to default as described below

Buttons

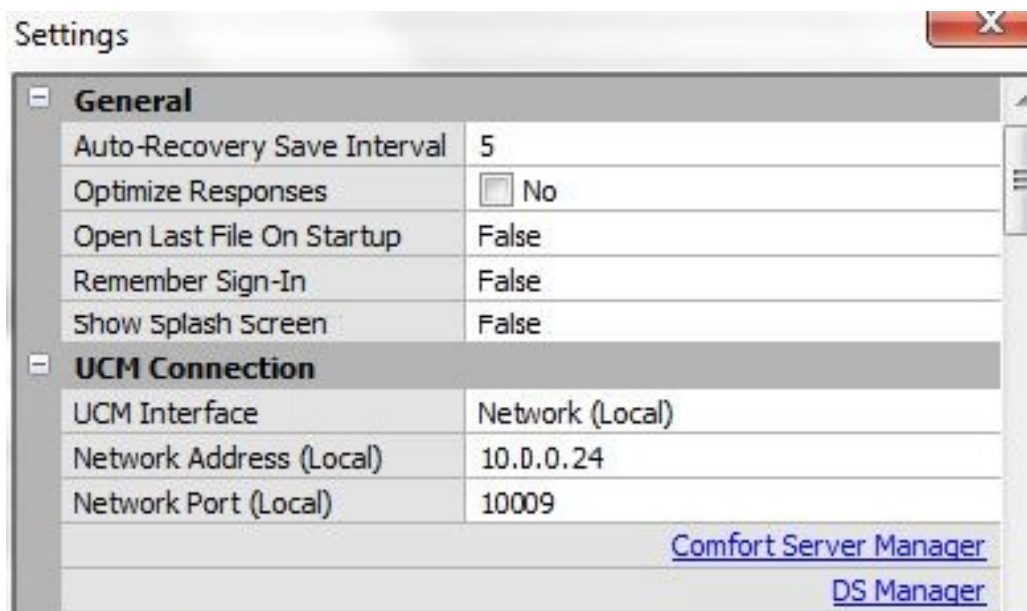
- SW1 - RESET: press to restart firmware
- SW2 -INIT : use with RESET to re-initialise firmware to default as described below

Comfort Server Manager

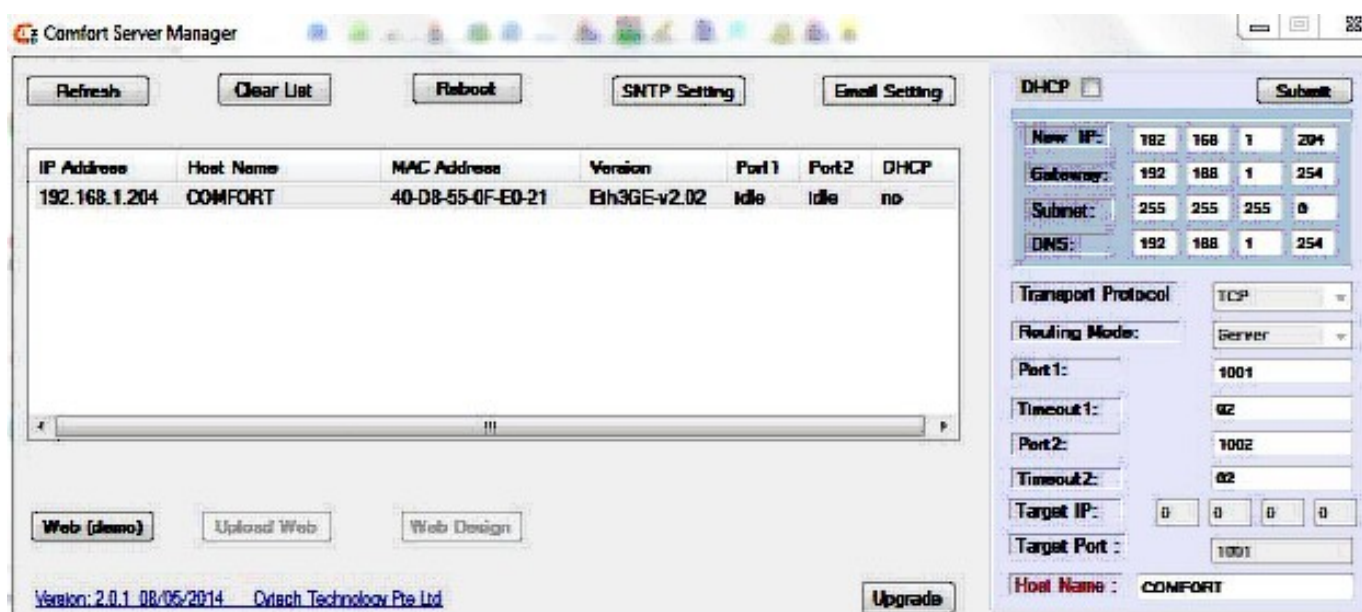
UCM/ETH03 requires the Comfort Server Manager software described below.

To set up the IP address and port number for ETH03, use Configurator 3.9.x or above . Comfort Server Manager is included in Configurator, which can be downloaded from <http://www.cytech.biz/configurator.html>.

Select Options > Settings > UCM Interface = Network Local



Click on the Comfort Server Manager link



Any UCM with ETH03 that is connected to the same network will be automatically discovered. It is in blue colour if it is on the same network, otherwise it will be shown in red. The current firmware version for the ETH03 is shown (2.02 in the above example).

The Status of the ETH03 will normally be shown as “idle”; if there is a connection, the Status field will show “busy”.

The IP address of the ETH03 is automatically discovered. The default IP address setting has DHCP so the IP address will be auto-configured by a Router having DHCP enabled. It is suggested to assign a fixed IP address for ETH03, (ensure there is no conflict with other IP addresses) to allow Port Forwarding for remote access. Uncheck the DHCP checkbox under the NewIP Setting and enter the New IP and Gateway address of the ETH03.

- Port 1: the 1st network port. By default the port is set to 1001.
- Timeout1: the time in minutes for which the port will remain open if there is no data in either direction. A value of 0 means the connection will never time-out.
- Port 2: the 2nd network port. By default the port is set to 1001.
- Timeout2: the time in minutes for which the port will remain open if there is no data in either direction. A value of 0 means the connection will never time-out.

Note: 2 minute connection time-out is recommended as there may be more than 1 application trying to use the connection at the same time, e.g. for iPhone. Time-out applies for UCM/ETH03, not heatmiser or Universal Click “Assign” button to effect the new changes. Press the “Discover Devices” button once to rediscover the ETH03.

“Clear List” button clears the fields on the Comfort Server Manager.

Reboot button reboots ETH03 submodule.

Upgrading Firmware on ETH03 Submodule

The ETH03 firmware is NOT the same as the UCM firmware of the baseboard. The ETH03 firmware runs on the ETH03 submodule module and not the UCM.

The ‘Upgrade’ button is used to upgrade the ETH03 firmware on the submodule over the network. Firmware upgrades are available from http://www.cytech.biz/eth03_firmware.html

ETH03-general.hex is for UCM/ETH03. ETH03-client.hex is for UCM/Universal and Modbus Slave

After downloading the zipped file select the ETH03-Server (hex file).

The full UCM Manual can be downloaded from http://www.cytech.biz/ucm_manual.html

To Re-initialise ETH03 to default settings

This should be done when the firmware is corrupted or ETH03 does not work for any reason.

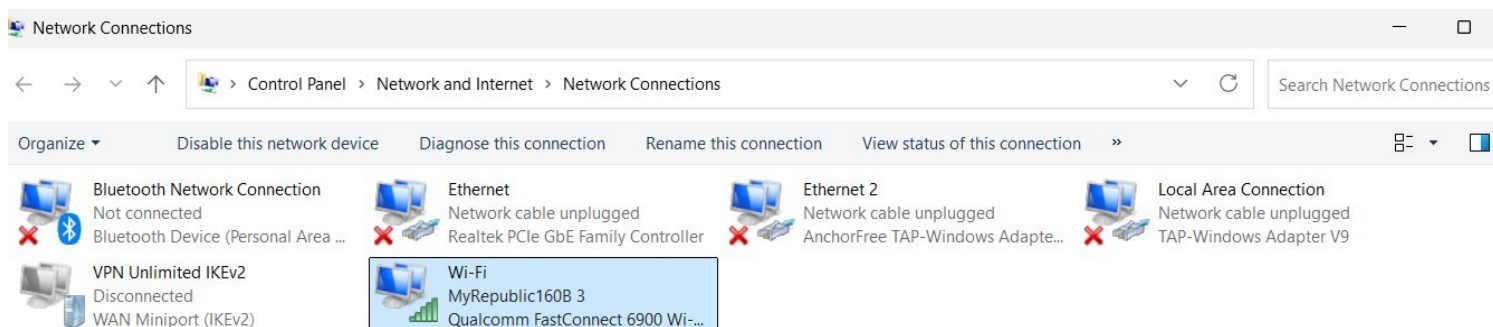
1. Press and hold SW2 switch.
2. Press SW1 RESET once.
3. The Green D2 LED on the ETH03 will turn off for about 5 seconds and then turn back on.
4. Maintain the press-and-hold of the SW2 switch until another cycle of turning off and turning on of the D2 LED on the ETH03 module. This will take around 10 more seconds.
5. Run the CS Manager software to discover the ETH03 module.

Troubleshooting

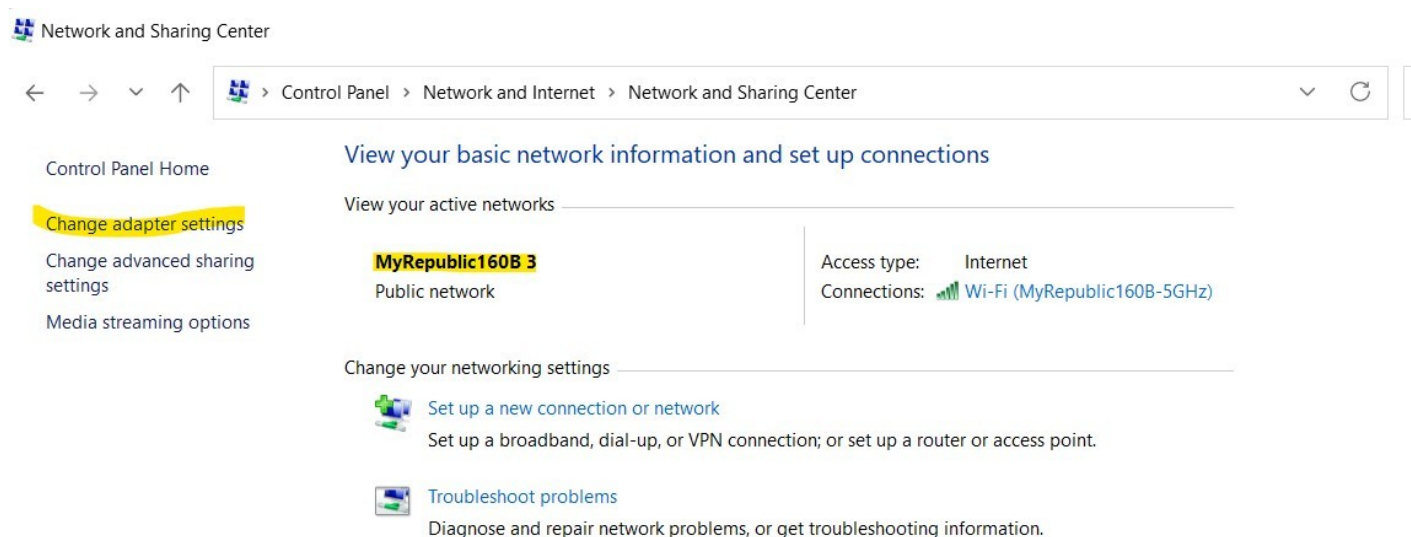
If the ETH03 IP address is not seen in the Comfort Server Manager window, the most probable reason is the presence of more than 1 Network adaptor eg a Virtual Network or wifi adaptor. CS Manager may be sending the UDP broadcast to the wrong network. Go to Control Panel\Network and Internet\Network Connections to see the Network adaptors.

Comfort Server Manager will transmit a broadcast UDP packet to the 1st network adaptor containing the message, "Discovery: Who is out there?" on the local network to port 30303. If any ETH03s are connected to the network, they will respond with a UDP packet containing their host name and MAC address and IP address. If there are more than 1 network adaptors in the PC, the UDP message may be sent to the wrong network adaptor. Note that Managed switches and Routers may also block port 30303 thus preventing discovery.

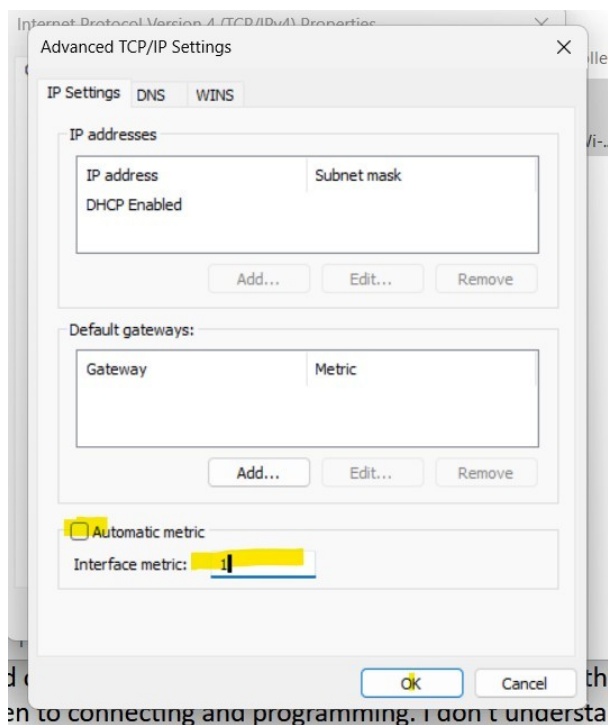
To fix this you can prioritise the network adaptor used by Comfort Server manager to send the UDP discovery. go to Control Panel. Select Network and Internet > Network and Sharing centre you will see your network adaptor in the screen. eg



click on Change Adaptor settings on the left



Right click on your network adaptor, eg Wifi in my case and select Properties
In Properties look for Internet Protocol 4 (TCP/IPv4) Select Advanced
There is a box called Automatic Metric which is checked ie selected by tick
Uncheck it and enter 1 in Interface Metric. This gives priority to this network adaptor. Check that other network adaptors have a higher interface metric ie Lower priority.



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- 14 March 2016 - Initial
- 20 June 2017 - Added LED and Button descriptions
- 18 December 2018 – Added Disable other network adaptors
- 11 November 2025 Revised