







# Gateway Configuration Page

Once you have made connection and have logged in you are able to configure the operation of the unit by selecting the proper parameters for your application. All Ubiquity™ Application software and functionality is accessed by logging into the Central Server (www.ubiquitysystems.net) **not** by using this configuration page.

## INSTALLATION INFORMATION

This section contains installer and site related information. The information entered here is sent to the central server when a site initially comes online to help identify the site to link it to the correct Ubiquity site. For the most part, this information is for reference purposes only, except for the Site Time. The Site Time is used by the local network and the QD2040a until the Ubiquity central server performs a time synchronization with the site.

**NOTE:** Be sure to set the correct Time zone so that the site will correctly adjust the time during future time synchronizations with the central server.

Once you are finished entering information in this section, click the Update Installation Info button.

**Installation Information**

**Contractor Contact**

Installer Name:  Installer Contact Phone Number:

**Identity**

Model:	QD2040	Application Version:	07.05.00
Submodel:	QD2040a	Java Version:	IcedTea6-1.13.4
Hardware Version:	AAA	OS:	qdos5
MAC:	001F7BB00919	OS Version:	7.6
Serial Number:	049600001000001	Site Name:	<input type="text" value="TCS Basys Controls"/>

**Location**

Address Line 1:  Address Line 2:

Country:  State:

City:  Zip:

**Site Time**

Wait up to two minutes for the values to change.

Current Time:  :   AM  PM

Timezone:

## APPLICATION INFORMATION

This section contains settings which define how the QD2040a interacts with the controller network, and how it communicates the data to the actual server.

**Application Options:** You must select a Network Polling Cycle Time for the QD2040a. This is the time interval that the unit will poll the entire network of controllers on all ports. The default setting is 1 minute. You must select whether or not to allow caching the host name via DNS. Typically, this is left unchecked. You must select how often the QD2040a connects to the central server. Typically this is set to "Always On."

**Application Information**

**Application Options**

Controller Network Polling Cycle:

Caching Settings:  Enable Cache

Connection Times:  Always On  Never On  Specify Times

**RS485 Network -- Port Configuration**

Autodetection of Controllers on All Ports:  Enabled

All Ports are Automatically Detected Once Hardware is Installed

Device U-PORT1-0:

Protocol Support:  Baud Rate:

Time-Out Period:  milliseconds Autodetection Range:  to

**RS-485 Network - Port Configuration:** Here you will configure each of the COM ports for this site. Typically, you will leave Auto Detection of Controls on All Ports enabled so the QD2040a will find and add the controller as they are included on one of the networks (wired or wireless). If disabled, new controllers must be added manually in Ubiquity.

The communication ports are automatically detected once the QD2040a is powered up. Once detected each COM port needs to be configured to ensure proper functioning of the network on each port. Each port can be enabled or disabled from the drop down menu.

You must also select the proper protocol being used on each port. The current protocol selections from the drop down menu are TCSbus or Modbus. You must also select the communication baud rate for each port. This setting must be the same as all of the controllers on that port. You can also adjust the Time-Out Period for each port. TCS recommends 250ms for wired networks and 1000ms for all wireless networks.

## COMMUNICATION INFORMATION

This section contains settings which control how the QD2040a connects out through the LAN or WAN to the Internet. All of these settings are determined by your local network administrator or IT department. The correct settings, network permissions, and port openings (ports 80 and/or 443) need to be verified with them prior to installation and connecting to the local network.

**Communications Options:** The QD2040a supports both static IP and Dynamic Host Configuration Protocol (DHCP) IP address allocations. Enter the Central Server Location, typically [www.ubiquitysystems.net](http://www.ubiquitysystems.net) by clicking the "Set Ubiquity Domain Name" button. There are a few special options which can be enabled: TCP window scaling, IPV6 and Secure Sockets Layer (SSL requires port 443 to be open), select whether to enable or disable these special options. Enter host name if needed (typically left blank).

**Communication Information**

Communication Options

IP Address Allocation:  DHCP  Static IP

Central Server Location:  [Set Ubiquity Domain Name](#)

Special Options:  Disable TCP Window Scaling  Disable IPV6  Enable SSL

HostName:

Proxy

Enable Proxy Server Usage:

Enable NTLM Authentication:  Enable

Select NTLM Mode:  LM  NT  NT+LM

Proxy Server:  Proxy Port:

Proxy Username:  Proxy Password:

[Update Communication Info](#)

**Network:** Select the desired IP allocation (DHCP or static IP addressing) to be used. When using static IP, it is necessary to enter the IP Address, Gateway, Subnet, DNS1 and DNS2 settings Virtual IP can be used (typically left blank). The IP settings will need to be established by the LAN/WAN network administrator prior to installation. When utilizing DHCP addressing, the IP address settings are automatically assigned when communication is established.

**Proxy:** If a proxy is required, select Static Proxy from the drop-down and enter all the related details in the fields that appear. Once you are finished entering information in this section, click the Update Commissioning Info button.

## SECURITY INFORMATION

This section contains settings which control the security of the gateway within the QD2040a and whether or not it can be accessed through the web interface. Enabling Secure Mode disables all web interfaces including the configuration page, and requires a specially configured USB flash drive or TCS Technical Support access to the QD2040a if it is online with Ubiquity central server to "unlock" it.

Here is where you change the default login credentials used to access the Configuration Page. It is recommend to change these login credentials.

Once you are finished entering information in this section, click the Update Security Info button.

**Security Information**

Application Security

Secure Mode:  Enable

User: admin Strong Password Example Qv33n#tlt

Password: Retype Password

[Update Security Info](#)

[Commissioning Tools](#)

## Commissioning Tools

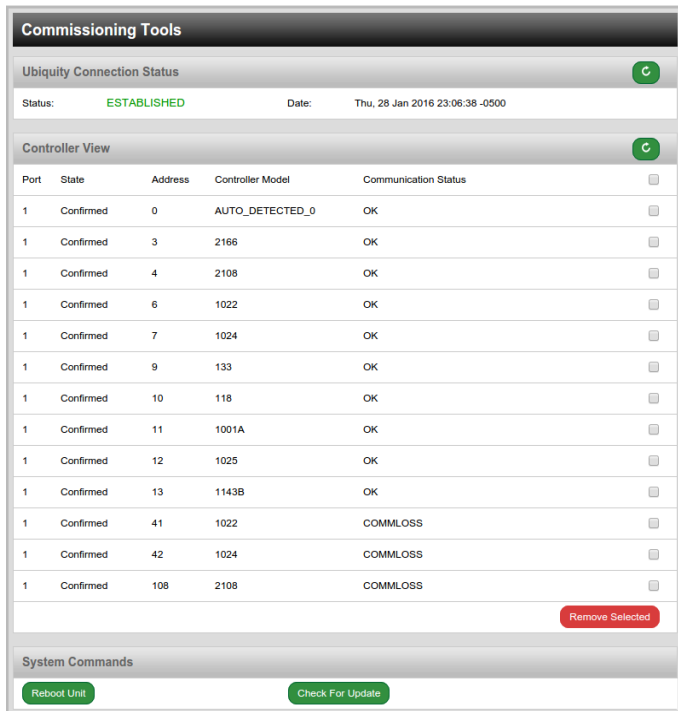
A separate page which contains various commissioning tools can be accessed by clicking the "Commissioning Tools" button at the bottom of the Setup page. This page gives you access to additional information about the connection status of the QD2040a and the controller network connected to it.

## UBIQUITY CONNECTION STATUS

This section displays the status of the connection between the QD2040a and the central server. You have 3 options for the message that will appear here:

- 1) Error - No Route to Host -- means the unit does not currently have an Ethernet connection.
- 2) Connected -- means the unit is able to communicate to the Ubiquity central server BUT is not being matched up with a specific Site, typically this indicates that the site is not initialized on the central server side yet, please contact TCS Basys Controls to assign or initialize the QD2040a to a site
- 3) Established -- means the unit is communicating with the Ubiquity central server AND is ready to go. All Ubiquity functions (monitoring, programming, alarming, etc.) should be available through the user interface at this point.

Clicking the green button with the arrow on it on the right side of the Ubiquity Connection Status title bar will refresh the connection status.



## CONTROLLER VIEW

This section allows you to see what controllers have been found by the QD2040a and view each controller's address, model, and communication status. The state field will show AUTO-DETECTED initially when found by the unit and CONFIRMED once the controller has been recognized by the Ubiquity central server. This information allows the installer to verify that each controller has been found by the QD2040a and is communicating with the local network.

Clicking the green button with the arrow on it on the right side of the Controller View title bar will refresh each controller's status.

## SYSTEM COMMANDS

In this section you are able to set a couple of system flags for the QD2040a itself. "Reboot Unit" sets a flag which will shut off and restart the QD2040a within a 5 minute Cycle. "Check for Update" contacts the Ubiquity Central Server for any updates relevant to its particular model number and software version. Once the update has been downloaded, it is automatically applied, and the unit may reboot.

NOTE: The "Check for Update" command requires that the QD2040a have Internet access to retrieve the update patch.

# Checkout & Troubleshooting

## CHECKOUT

1. Be sure to check and verify all wiring before powering the QD2040a.
2. Apply power. The Power LED will turn on.
3. If the QD2040a has not been pre-programmed, it can be programmed at this time.
4. The unit is now ready for operation.

## TROUBLESHOOTING

### Power LED does not light up

Be sure that the power supply module, included with the QD2040a, is plugged in to an outlet that has power. This is a 12V, 5A, tip positive power supply.

### No Communications with Controllers on the network

Make sure the baud rate selection for the QD2040a is set to match the baud rate of all the controllers on each port network. All controllers on the network **must** have a unique address, excluding the reserved address '248'. Network wiring should also be checked.

## LED Description

Three LEDs on the QD2040 allow the occupant to view the current operating status of the QD2040a.

### POWER

This LED will be on when the QD2040a is properly powered.

### LAN

The two LEDs on the LAN 10/100/1000 card notes activity on the Ethernet. One light should blink intermittently and the other should remain on all the time. The blinking light represents communications. The other solid light indicates a proper Ethernet connection.

### RS-485 PORTS (COM 1&2)

A set of LEDs allow the occupant to view operational status of the serial communication integrated board. Each port has two LED's to the right of the terminals:

GREEN – indicates transmitting (Tx)

YELLOW – indicates Receiving (Rx)

Additionally, a single red LED indicating the serial ports are operational, is located inside the enclosure behind the terminals.