UCrypt® Q2Q

Patent Pending

UCrypt® Cable Gateways QAM to QAM

QUICK START GUIDE

Although every effort has been taken to ensure the accuracy of this document it may be necessary, without notice, to make amendments or correct omissions. Specifications subject to change without notice.

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SAFETY

1. Safety

WARNING! FAILURE TO FOLLOW THE SAFETY PRECAUTIONS LISTED BELOW MAY RESULT IN PROPERTY DAMAGE OR PERSONAL INJURY. PLEASE READ AND COMPLY WITH THE FOLLOWING:

SAFETY GROUND: The connection to earth of the supplementary grounding conductor shall be in compliance with the appropriate rules for terminating bonding jumpers in Part V of Article 250 of the National Electrical Code, ANSI/NFPA 70, and Section 10 of Part I of the Canadian Electrical Code, Part I, CSA C22.1.

WATER AND MOISTURE: Care should be taken to prevent entry of splashed or dripping water, other liquids, and physical objects through enclosure openings.

DAMAGE: Do not operate the device if damage to any components is suspected.

POWER SOURCES: Only connect the unit to a power supply of the type and capacity specified in the operating instructions or as marked on the device.

        NOTE: a) For 115 VAC operation, use the power cord supplied for operation from a 115 VAC source.

                b) For 230 VAC operation, use the power cord supplied for operation from a 230 VAC source.

GROUNDING OR POLARIZATION: Electrical grounding and polarization means must not be defeated.

POWER CORD PROTECTION: Care must be taken during installation to route or arrange the power supply cord to prevent and avoid the possibility of damage to the cord by external objects. Pay particular attention to the exit point from the device and plug.

POWER SUPPLY CORD ROUTING: The power supply cord shall not be attached to the building surface, nor run through walls, ceilings, floors and similar openings in the building structure.

SERVICE: Do not attempt to service the device beyond procedures provided the operating instructions. All other servicing should be referred to qualified service personnel.

MODIFICATIONS: Modifications should not be made to the device or any of its components for applications other than those specified in the operating instructions.

SAFETY CODES AND REGULATIONS: The device should be installed and operated in compliance with all applicable local safety by-laws, codes and regulations.

BATTERY REMOVAL AND REPLACEMENT: Disconnect power (AC or DC) from the equipment before battery removal and replacement. This is accomplished by unplugging the power cord from the power outlet. Replace the battery with Sony part No. CR2032 or exact replacement only.

        CAUTION: Use of a different battery type may present a risk of fire or explosion.

BATTERY DISPOSAL: Recycle or dispose of batteries in accordance with the battery manufacturer's instructions and local/national disposal and recycling regulations. Please call 1-800-8-BATTERY or go to the website at www.call2recycle.org for information on recycling or disposing of your used battery.

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QUICK START GUIDE – READ ME FIRST

2. Quick Start Guide – READ ME FIRST

For detailed information on configuration, go to the ATX website (atxnetworks.com) in the Resources & Support section, User Documents sub-section to download the Installation & Operation Manual.

This Quick Start Guide will take you through the steps required to get your UCrypt up and running if you have not done this before. Follow the steps below:

2.1 Install and Power Up

You may be doing this first setup in your lab so detailed installation details are not provided here. See the Installation and Operation Manual for installation details. You can get it from the ATX website (atxnetworks.com) in the Resource & Support section, User Documents sub-section. You will first need to get a user name and password from your ATX Networks support or sales representative and the contact numbers are on this same web page.

Refer to "Quick Start Guide – READ ME FIRST" on page 2-1 for a brief overview of mounting and powering information.

> ⚠️ **NOTE:** *If the unit is to be mounted in a rack, it is essential to attach the rear mounting ears to mounting rails to provide support or alternately install the equipment on a well supported shelf.*

2.2 Plug in the CableCARD™ Modules

The CableCARD host slots are on the rear panel of the UCrypt device for some versions or behind the front fan panel in the Version 2 model. CableCARD modules are hot swappable so they may be inserted or removed at any time. Depending on the ordered configuration, your UCrypt device may have 1 to 10 active CableCARD slots. CableCARD modules may be inserted in any order.

> ⚠️ **NOTE:** *Great care should be taken with the CableCARD modules to not forcibly insert them - the card should slide in and seat easily. Forcing the card into the slot is likely to result in bent pins in the PCMCIA host interface which will prevent proper operation of the UCrypt device.*

Refer to "Quick Start Guide – READ ME FIRST" on page 2-1 for instructions for activating CableCARD modules.

2.3 Connect the Cables

A PC with web browser and Ethernet network port will be required to configure the UCrypt device. Establish a network connection with the supplied crossover network cable.

Connect QAM digital input signals to the input F fitting at a level of +5 to +10 dBmV per digital carrier.

Refer to "Quick Start Guide – READ ME FIRST" on page 2-1 for more details about cabling.

2.4 Start the Management Interface

The software for configuring the UCrypt Management Interface is provided by a built in secure web server which presents configuration pages. You will connect with the secure web server at **https://192.168.0.23** which is the default address, and log in to access the Interface.

The UCrypt device will take about 90 seconds to boot up after applying power before you can begin configuration.

Refer to "Quick Start Guide – READ ME FIRST" on page 2-1 for basic setup instructions to connect to the Management Interface

2.5 Change Network Settings

If it is necessary to change the network IP address to access this unit remotely on a network, that is done on the **System** configuration tab

Refer to "Quick Start Guide – READ ME FIRST" on page 2-1 to change the IP addresses.

2.6 Pair the CableCARD™ with its Host

You will need to pair each CableCARD module with its host, that is, the Host Slot receptacle on the UCrypt device. If this CableCARD is not a permanent CableCARD to be installed in this unit, pairing will need to be done again with the exact permanent CableCARD and host slot.

The process of pairing is required for security so the CableCARD may not be moved from the host that it is originally paired with and plugged in somewhere else. If it is moved, it will require the pairing operation to be done again with the new host and it will not decrypt any services until that is done.

The pairing information will be obtained from the Management Interface after you log in and will need to be passed to your Billing System Administrator who will setup an account and enter the pairing information.

Refer to "Quick Start Guide – READ ME FIRST" on page 2-1 for more details about the pairing process.

2.7 Optionally Import an Existing Configuration File

UCrypt supports mass deployment with an importable/exportable configuration file. If you have a previously exported configuration file to import see "Quick Start Guide – READ ME FIRST" on page 2-1.

If you have no file to import skip to Step 2.1 below.

2.8 Select Programs for Decryption

After you have paired available CableCARD modules with the host receptacle slots, the UCrypt device will receive a Channel Map by reading the Cable System VCT (Virtual Channel Table) and display available programs in a window. You should now select channels for decryption to test CableCARD module validation and authorization. After each installed CableCARD module is verified to be working with at least one program, continue selecting programs that will be needed for the final output lineup. Encrypted programs may be selected for decryption and programs that are in the clear may also be selected to passthrough to the output.

Refer to "Quick Start Guide – READ ME FIRST" on page 2-1

2.9 Review or Change CableCARD™ Configuration

After having selected programs for decryption, you may need to change settings or remove a program.

Refer to "Quick Start Guide – READ ME FIRST" on page 2-1 for details.

2.10 Configure Output QAM Carriers

You need to specify the QAM output frequencies and Constellation size.

Refer to "Quick Start Guide – READ ME FIRST" on page 2-1 for details.

2.11 Assign Programs to Output QAM Carriers

Finally, the programs selected for decryption or passthrough need to be assigned to output QAM carriers.

Refer to "Quick Start Guide – READ ME FIRST" on page 2-1 for details.

That's it, you're done

If you followed all the directions, you should have programs on the QAM output channels that you configured.

Use an appropriate Digital TV to view programs that are in the clear.

Use an appropriate Pro:Idiom® compatible TV or STB with built-in Pro:Idiom to view Pro:Idiom encrypted programs.

Download the full Installation & Operation Manual from the ATX website (atxnetworks.com) in the Resources & Support section, User Documents sub-section for more details than are presented here. Click the **Help** tab to download it to your Management Computer.

IMPORTANT CONFIGURATION INFORMATION

3. Important Configuration Information

3.1 Support for Two Simultaneous Configurations

As work on configuration progresses, changes will need to be made to multiple pages in the Management Interface. As work is completed on each page, the changes must be saved and there is a **Save** button conveniently located on every configuration page where configuration changes can be made. If changes are made and you navigate away from the page without saving, the changes may be discarded.

When you are satisfied that all configuration changes on the UCrypt device are complete and correct, click the **Apply** button located by the save buttons on any page, they all do the same thing. There is no need to apply the configuration as you complete work on each page. You may **Save** your work as you go and **Apply** the configuration when completed.

3.1.1 Saved Configuration

This can be thought of as a work in progress and any changes can be made in the configuration without affecting how the UCrypt device is currently working and providing services.

This saved configuration can be discarded at any time without affecting the working UCrypt device configuration or can be Applied to the UCrypt device, to make it the new working configuration. To discard your configuration changes browse to the **Configuration** tab and click the **Revert** button. The Revert action is not service affecting.

3.1.2 Applied Configuration

This is the working configuration that the UCrypt device is currently using to provide the desired services to the output and regardless of the changes made in the Management Interface as discussed above, changes do not take effect until the **Apply** button is clicked and the configuration is applied.

During configuration, while changes are being made, the saved configuration and the applied configuration differ by the changes that have been made and saved since last clicking **Apply**. After the Apply button is clicked, the saved configuration and the applied configuration are identical.

> **NOTE:** *Clicking the Apply button will cause a service interruption while the UCrypt device re-provisions itself with the new working configuration. It is best to make all changes necessary on all configuration pages and apply the changes when completed.*

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INSTALLATION SUMMARY

4. Installation Summary

4.1 Mounting

⚠️ **NOTE:** *If the UCrypt unit is to be mounted in a rack, it is essential to attach the rear mounting ears of the unit to rear mounting rails to provide support or alternately install the equipment on a well supported shelf*

Rack mount brackets for front and rear are provided with the UCrypt device for mounting in a standard EIA 19" rack. Brackets are also provided for mounting the UCrypt device to a vertical backboard for sites where no rack mounting facilities exist.
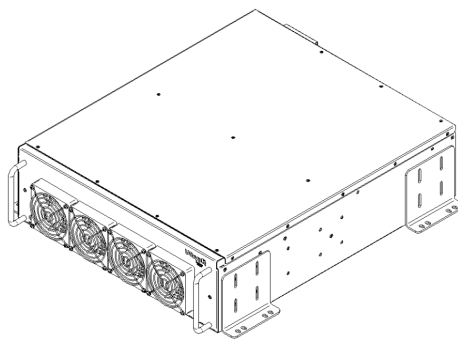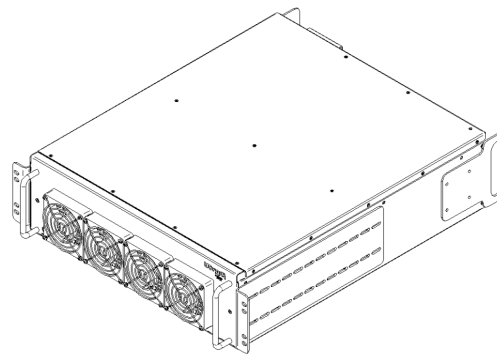
Panel Mount   Rack Mount

4.2 Equipment Safety Grounding

It is imperative that the UCrypt device housing be connected to a permanent building ground in a manner that will ensure that the exposed metal parts are constantly connected to ground even when the power cord may be disconnected temporarily. A grounding lug is provided on the rear panel to conveniently effect such a connection. The following guidelines are provided to clarify the requirements for the installation to meet UL, CUL and CB standards. The use of the words "Ground" and "Earth" as well as "Grounding" and "Earthing" may be used interchangeably and in this context, have the same meaning.

1. The supplementary equipment grounding conductor is to be installed between the UCrypt device rear panel ground connector and earth, that is, in addition to the equipment ground conductor in the power supply cord.

2. The supplementary equipment grounding conductor may not be smaller in size than the branch-circuit supply conductors or a minimum #14 AWG. The supplementary equipment grounding conductor is to be connected at the rear panel terminal provided, and connected to earth in a manner that will retain the earth connection when the power supply cord is unplugged. The connection to earth of the supplementary grounding conductor shall be in compliance with the appropriate rules for terminating bonding jumpers in Part V of Article 250 of the National Electrical Code, ANSI/NFPA 70, and Section 10 of Part I of the Canadian Electrical Code, Part I, CSA C22.1.

3. Termination of the supplementary equipment grounding conductor may be made to building steel, to a metal electrical raceway system, or to any grounded item that is permanently and reliably connected to the electrical service equipment earth.

4. Bare, covered or insulated grounding conductors are acceptable. A covered or insulated grounding conductor shall have a continuous outer finish that is either green, or green with one or more yellow stripes.

4.3 Ambient Environment

The UCrypt device is designed to operate to specification in an ambient room temperature of 0°C to +50°C (+32°F to +122°F) however it is recommended that it is installed in an environment that approximates normal room temperature to ensure proper long term operation.

4.4 Power Requirements

The UCrypt device is designed with an autosensing switching type power supply which can operate on a wide range of input
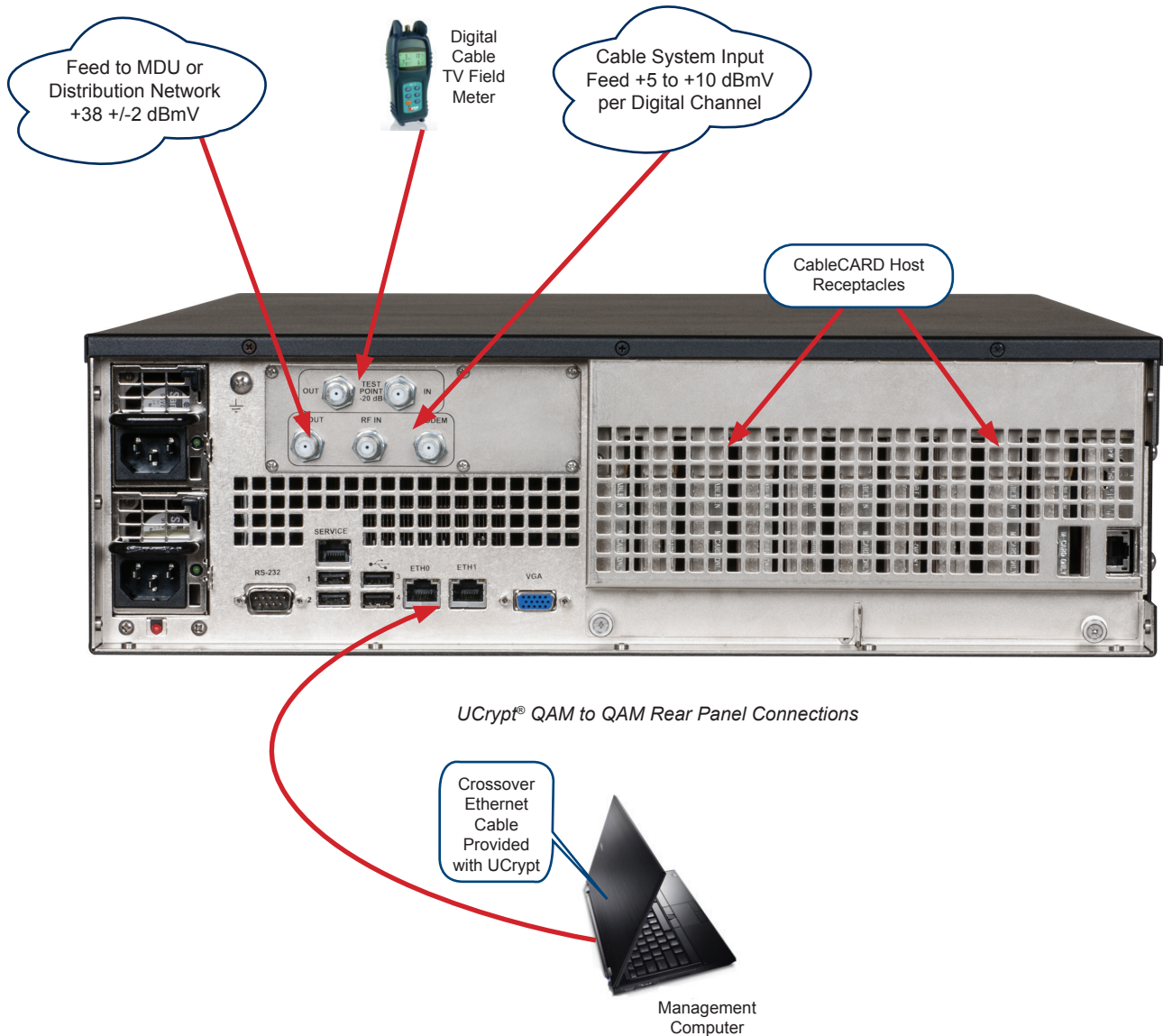
voltages from 115 VAC to 230 VAC. There is no need to configure the power supply to operate on any voltage in this range. The power cord provided with the UCrypt device is a North American configuration with a NEMA 5-15 grounded plug for 115 VAC. If it is necessary to operate the UCrypt device on 230 VAC, the installer must obtain an IEC cord with a NEMA 6-15 grounded plug for use in North America.

CABLING CONNECTION

5. Cabling Connection

The input signal level presented to the UCrypt device must be in the range of +5 to +10 dBmV per digital carrier as measured at the RF input port. The output RF level is +38 dBmV +/- 2 dB at the RF output port. Adjacent QAM carriers should be equal in level.

A crossover Ethernet Cable is provided with the UCrypt device for connecting directly to the Management Computer.

Feed to MDU or Distribution Network +38 +/-2 dBmV

Digital Cable TV Field Meter

Cable System Input Feed +5 to +10 dBmV per Digital Channel

CableCARD Host Receptacles

UCrypt® QAM to QAM Rear Panel Connections

Crossover Ethernet Cable Provided with UCrypt

Management Computer

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POWERING UP

6. Powering Up

> ⚠️ **NOTE:** *The factory default configuration is that all QAM outputs are disabled so no unintended output into the distribution network is possible.*

If the UCrypt device has been pre-provisioned elsewhere, before powering up, ensure that the network output cables are disconnected from the distribution network to avoid unintentional service outages if there are overlaps between the QAM output frequencies of the UCrypt device and existing services on the network.

Apply power and turn on the rear panel switch below the power receptacle. Boot-up will take approximately 90 seconds.

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MANAGEMENT INTERFACE

7. Management Interface

7.1 Connect to the Management Interface

Minimum Management Computer Requirements

- Computer running Windows® or other OS
- Ethernet Network port available
- Web browser such as Internet Explorer®, Firefox® or similar
- Adobe Reader for reading this manual
- Notepad or text editor for capturing text and logs

7.2 Configure the Management Computer Network Port

Set-up of the UCrypt unit requires a laptop or desktop PC running Microsoft® Windows or other operating system with an available Ethernet network port and web browser software(called the "Management Computer" in the following procedures)

The Management Computer network port must be assigned an IP address in the same subnet as the UCrypt device for access to the UCrypt Management Interface. The following procedures are for Microsoft Windows XP and a factory default IP address setting on the UCrypt device of 192.168.0.23 subnet 255.255.255.0

- Connect the Management Computer's Ethernet adapter to the UCrypt device's Ethernet port using a Cat5e network cable (supplied with the unit). Link lights should illuminate indicating that the cable connection is correct and working.

- Set the Management Computer's Ethernet interface to a static IP address on the 192.168.0.x subnet, as described below:
  - From the Control Panel, open **Network Connections** and select the connection associated with the Ethernet adapter to be used for connecting to the UCrypt device (e.g., Local Area Connection).
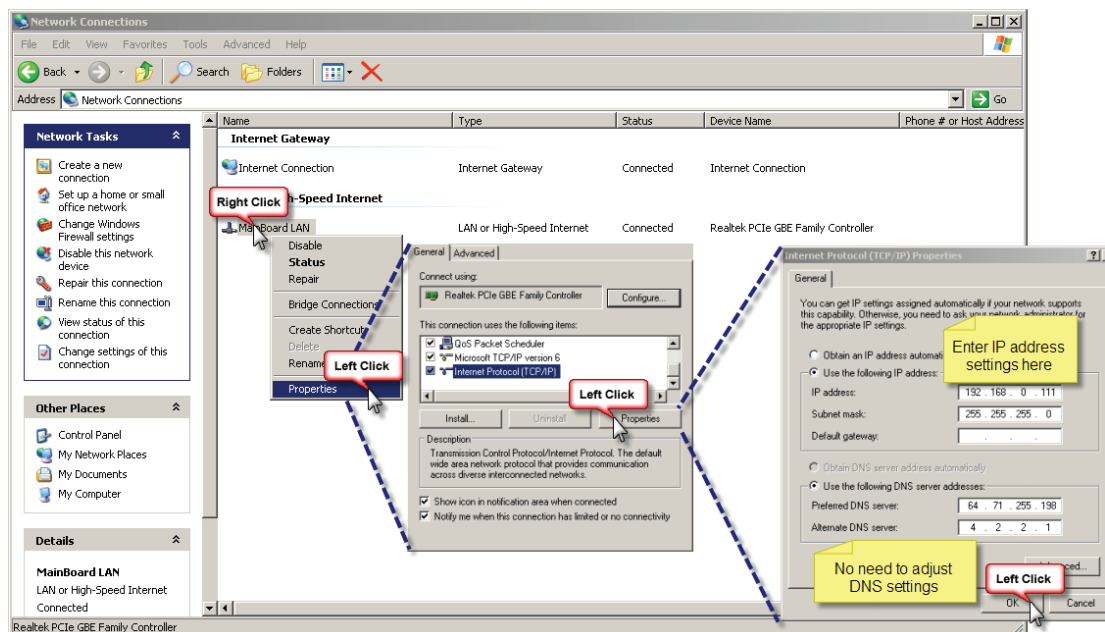
  - Right click on the connection and select **Properties**.
  - Select **Internet Protocol (TCP/IP)** and click Properties.
 - Click the selection box beside **Use the following IP address** to enter a check mark in the box.

- In the **IP address** field, enter 192.168.0.x (where x represents any number from 1-253 except 23).
- In the **Subnet mask** field enter 255.255.255.0.
- Click **OK** and then **OK** again in the previous window.

7.3   Log in to the Management Interface

On the management computer, open a web browser and enter **https://192.168.0.23** in the address field.

If this is the first time you have connected to this UCrypt device with this Management Computer, you may get a warning of a security violation or error. This is due to the UCrypt device having a self signed security certificate and is not a security threat but your browser identifies it as such. Simply accept the security exception and proceed to the login screen as shown next. Other browsers will typically respond in the same manner.

Warning For Firefox Browser:
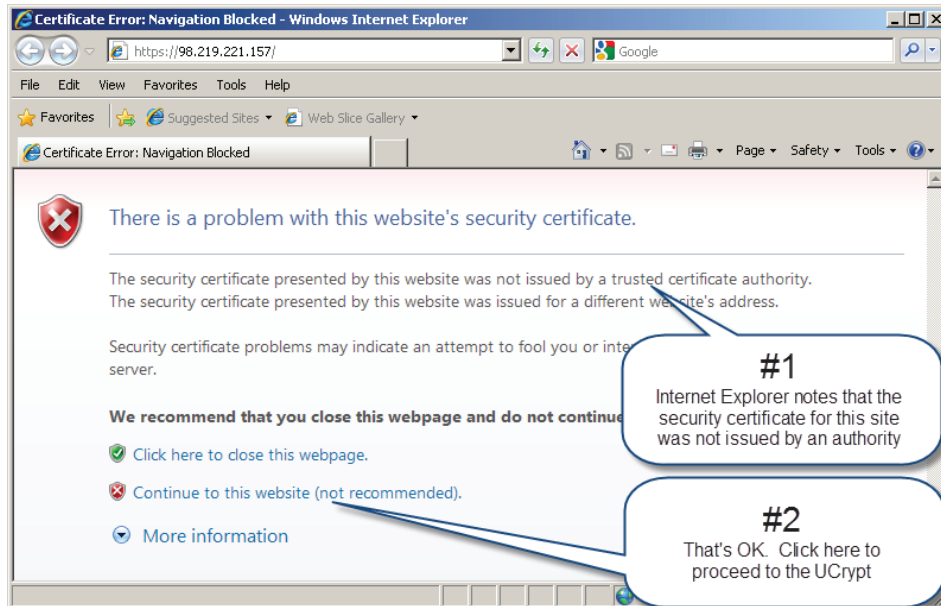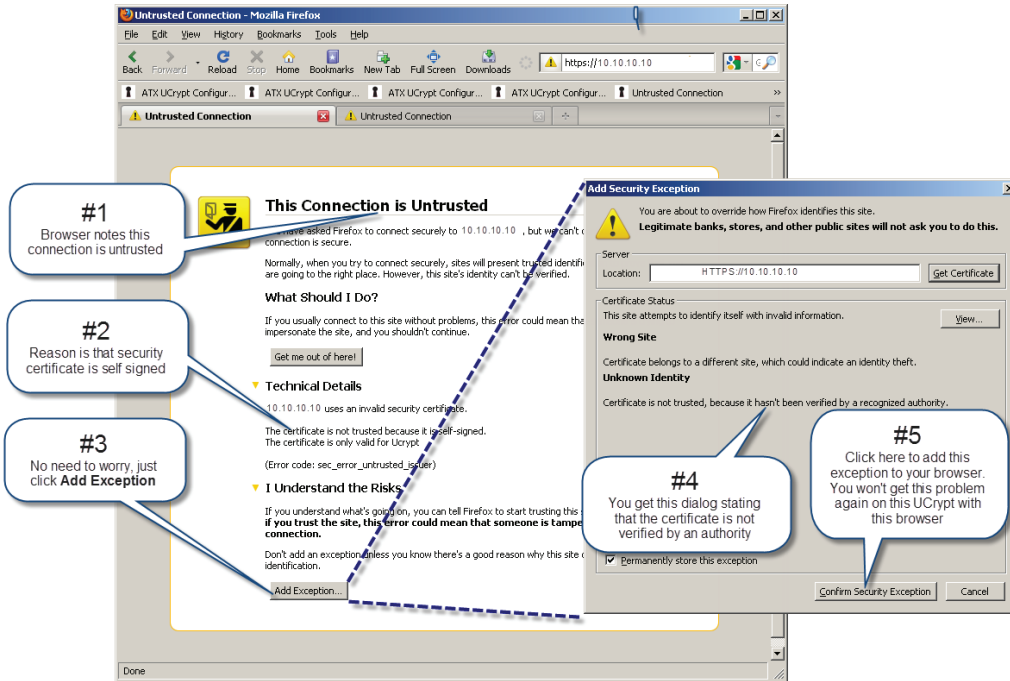
After navigating the security warnings, you should be presented with the following screen, on the left, displaying the login window:
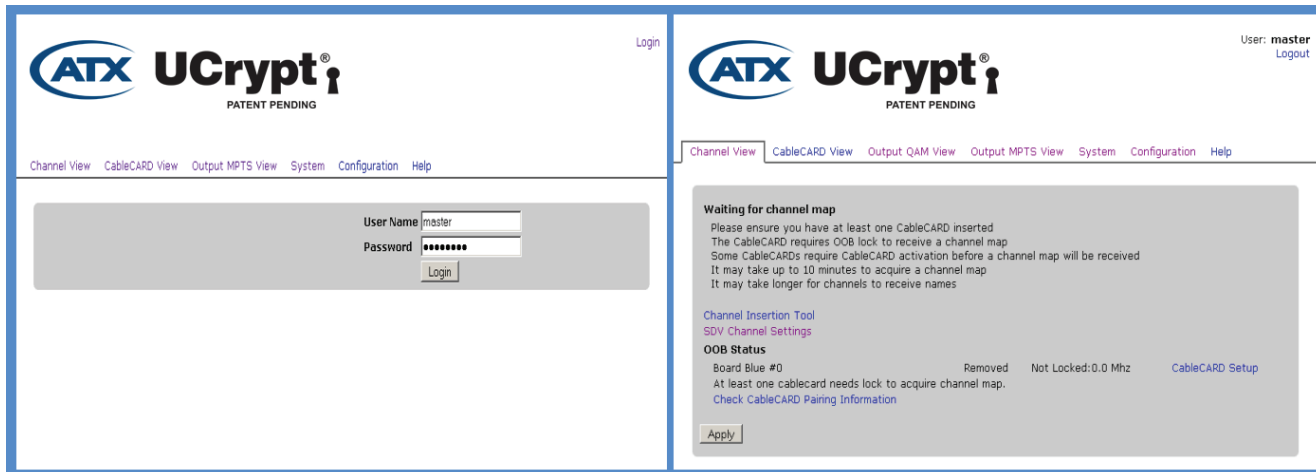
Enter the appropriate **User Name** and **Password** for the access level you require from the table below. The master user is the only user that can perform configuration.

Default User Names, Passwords and Privileges				
Account User	**Modify UCrypt® Settings**	**Install Updates**	**Set Passwords**	**Default Password**
master	Yes	Yes	Yes	atx_ucrypt_master_password
admin	Yes	No	No	atx_ucrypt_admin_password
user	No	No	No	atx_ucrypt_user_password

When the login username and password are successfully entered, the screen on the right above will be presented.

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ACTIVATING CableCARD™ MODULES

8.   Activating CableCARD™ Modules

Activate CableCARD Modules by pairing them with the UCrypt device host slots.

#1
Click here to select the Channel View page to begin CableCARD setup

#2
Plug CableCARDs into the host receptacles on the UCrypt rear panel. The UCrypt unit is equipped with four CableCARD slots that function as four individual hosts. CableCARD hosts are identified by the colors **blue, green, red and purple** both on the UCrypt back panel and in the Management Interface.
Be sure to fill the slots in that order if there are less than 4.

ATX UCrypt®
PATENT PENDING

Channel View

#7
CableCARD must show **Validated** after setup completes

Add new channels

Search:

Channel 15 - Progr
Channel 16 - Progr
Channel 17 - Progra
Channel 18 - Program
Channel 19 - Program #9 - Faith - Frequency 99000
Channel 20 - Program #9 - WGN - Frequency 723000
Channel 21 - Program #1 - WBNA - Frequency 201000
Channel   723000
Channel
Channel

#3
Check here to see that the OOB carrier has been aquired and is locked. This must be locked to continue.

CableCARD Board Blue #0

CableCARD Setup Steps
Step 1: CableCARD Inserted (Done)
Step 2: Acquire OOB Lock (Done)
Step 3: Receiving messages from headend (D   count: 234418)
Step 4: Use CableCARD(tm) Pairing to prov   adend with required activation info
Step 5: Headend has turned on service to C   CARD (Done)
Step 6: CableCARD is validated (Done)
Step 7: Added encrypted channel to Board   ue (Done)
Step 8: CableCARD is authorized to decryp   annel 200 (Done)
    Complete

CableCARD Diagnostic Info
Status	Inserted
Manufacturer	Motorola (0000)
Card Version	613
Card Authorization	Validated, validation message is received, authenticated, and the IDs match those in the current binding
Card Message	
OOB	Locked	72.750 Mhz
Profile	6 MPTS Streams	6 Programs Streams 64 Elementary Streams
Applications	Conditional Access

CableCARD(tm) Status
Network Setup
CableCARD(tm) Pairing
DSG
Interactive Info

#4
Click here to open a new window to see the CableCARD pairing information. This next page may take some time to load after CableCARD insertion due to firmware upgrades occuring.

In Use

Total C
Channel
SDV Chan

Rout

OOB Status

Board Blue #0	Inserted	Locked: 75.250 Mhz
Board Green #1	Inserted	Locked: 75.250 Mhz
Board Red #2	Inserted	Locked: 75.250 Mhz
Board Purple #3	Inserted	Locked: 75.250 Mhz

CableCARD Setup
CableCARD Setup
CableCARD Setup
CableCARD Setup

At least one cablecard needs lock to acquire channel map.

Check CableCARD Pairing Information

Apply

CableCARD Pairing Information

CableCARD Board Blue #0 (#0)

CableCARD ID: 000-002-923-589-2
Host ID: 061-000-000-276-2
Data: 114-288-246-73
Serial: MA0805CAFFN9

Note:
CableCARD data for Moto is shown. SA/Cisco differs slightly but procedure is the same

CableCARD Board Green #1 (#1)

CableCARD ID: 000-002-923-031-5
Host ID: 061-000-000-275-4
Data: 237-949-914-81
Serial: MA0805CAFBJ8

CableCARD Board Red #2 (#2)

CableCARD ID: 000-002-923-392-1
Host ID: 061-000-000-274-7
Data: 103-354-494-59
Serial: MA0805CAFEH0

CableCARD Board Purple #3 (#3)

CableCARD ID: 000-003-128-164-5
Host ID: 061-000-000-273-9
Data: 244-979-981-46
Serial: MA0805CAFBM9

#6
After CableCARD pairing information has been entered in the billing system and some time allowed for that information to be processed, click here to monitor the validation and authorization process for each CableCARD

#5
Use your mouse to click and hold while dragging across the data to highlight and copy this information to Notepad.

Alternately, you can copy the information manually.

Send this infomation to your billing system administartor.

Each host and CableCARD device must be set up as a valid pair in the billing system as a **"One-way Host".**

8.1   CableCARD™ Module Authorization Best Practice

Each CableCARD module must be validated and authorized before it will decrypt. Validation means that the ID numbers for the CableCARD and host port match as entered in the billing system. Authorization means that the CableCARD has received an entitlement to decrypt specific content.

When several CableCARD modules are inserted in the UCrypt device, it is best to first route one program to each CableCARD to verify the validation and authorization of each. In step 4 of the illustration below, for the first programs being added, select a different CableCARD for each program until all CableCARD modules have at least one program routed to them. If all of these programs decrypt, you can be sure of the authorization status and that they are working as they should. If no specific CableCARD is selected in step 4, then the programs are added to the first CableCARD until full, then the second, and so on. The last CableCARD, if it has no programs routed to it initially, is left in doubt as to its true authorization status while it may be validated.

CHANNEL VIEW TAB - CONFIGURATION

9.   CHANNEL View Tab - Configuration

Select programs from the system channel map for processing here:

#1
Click Channel View tab to start Channel configuration

#2
When the first CableCARD has been validated, within 10 minutes you receive the Channel Map from the Virtual Channel Table.
The programs listed here are from reading the VCT.

#3
Select a desired program in the channel map window here by clicking and highlighting it

#4
Optionally, select a desired CableCARD here by clicking and highlighting it

Add new channels

Search:

Channel 3 - Program #402 - TNT - Frequency 249000
Channel 6 - Program #406 - Nick - Frequency 249000
Channel 8 - Program #450 - TBS - Frequency 428000
Channel 9 - Program #509 - MY9 - Frequency 753000
Channel 10 - Program #465 - FX - Frequency 435000
Channel 11 - Program #511 - CW11 - Frequency 753000
Channel 12 - Program #466 - Oxygen - Frequency 435000
Channel 14 - Program #407 - MSNBC - Frequency 249000
Channel 15 - Program #425 - CNBC - Frequency 255000
Channel 16 - Program #422 - USA - Frequency 255000

Optionally select a preferred bo

CableCARD Blue #0 #0 (6/6 Decrypts)
CableCARD Green #1 #1 (6/6 Decrypts)
CableCARD Red #2 #2 (4/6 Decrypts)
CableCARD Purple #3 #3 (0/6 Decrypts)

Select Routing

Decrypt

Add

#5
Select the **Routing** in the drcpdown box, choose **Decrypt** if the incoming program is encrypted and **Passthrough** if the incoming program is in the clear

In Use	Program	Frequency	Name	Routing	Status	Board/Tuner
Channel 1	468	435000	NY1	Passthrough	●	CableCARD Green (#1) - Tuner #3
Channel 2 / **EAS**	502	753000	WCBS	Passthrough	●	CableCARD Purple (#3) - Tuner #2
Channel 4 / **EAS**	504	753000	WNBC	Passthrough	●	CableCARD Purple (#3) - Tuner #2
Channel 5 / **EAS**	505	753000	WNYW	Passthrough	●	CableCARD Purple (#3) - Tuner #2
Channel 7 / **EAS**	507	753000	WABC	Passthrough	●	CableCARD Purple (#3) - Tuner #2
Channel 13 / **EAS**	513	753000	WNET	Passthrough	●	CableCARD Purple (#3) - Tuner #2
Channel 19	408	249000	VH1	Decrypt	●	CableCARD Blue (#0) - Tuner #2
Channel 20	423	255000	MTV	Decrypt	●	CableCARD Blue (#0) - Tuner #3

Total Channels In Use: 30
Channel Insertion Tool
SDV Channel Settings

#6
Click **Add** to add the program to the list below (Some channels have previously been added)

#7
Selected program shows up here in this list

OOB Status

Board Blue #0		Inserted	Locked:89.500 Mhz	CableCARD Se
Board Green #1		Inserted	Locked:89.500 Mhz	CableCARD Setup
Board Red #2		Inserted	Locked:89.500 Mhz	CableCARD Set
Board Purple #3		Inserted	Locked:89.500 Mhz	CableCARD Se

At least one cablecard needs lock to acquire channel map.
Check CableCARD Pairing Information

Apply

#9
Click **Apply** to apply the channel lineup changes to the UCrypt.

#8
Repeat from step 3 until all desired programs have been added or the CableCARD or tuner rescurces are exhausted.

⚠ **NOTE:** *Clicking the Apply button will cause a service interruption while the UCrypt device re-provisions itself with the new working configuration. It is best to make all changes necessary on all configuration pages and apply the changes when completed.*

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CableCARD™ VIEW TAB - CONFIGURATION

10. CableCARD™ VIEW Tab - Configuration

Review and change CableCARD program parameters here:

#1
To change configuration of the CableCARDs click **CableCARD View**

#2
Programs already selected and assigned previously on the **Channel View** page appear here. The frequency and constellation is automatically assigned by the **UCrypt** based on the multiplex properties when the first program is added to this CableCARD tuner

#3
Change a previously selected program decryption status here. This had been set earlier on the **Channel View** page.

Filter means drop the program.
Passthrough means pass a clear program through
Of course **Decrypt** means just that

#4
To remove this multiplex from the tuner click here, then click **Save** to remove the multiplex from being displayed on the screen

#5
Note that adding one program to a **CableCARD**, causes all other programs listed in the channel map on that multiplex to appear here, along with the added program, filtered by default

#6
Click **Save** button to save changes to the UCrypt until all changes are completed

⚠️ **NOTE:** *Clicking the Apply button will cause a service interruption while the UCrypt device re-provisions itself with the new working configuration. It is best to make all changes necessary on all configuration pages and apply the changes when completed.*

For detailed information on configuration of this page, go to the ATX website (atxnetworks.com) in the Resources & Support section, User Documents sub-section to download the Installation & Operation Manual.

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OUTPUT QAM VIEW TAB - CONFIGURATION

11. OUTPUT QAM VIEW Tab - Configuration

Configure Output QAM frequencies and constellation size here:

⚠️ *NOTE: Clicking the Apply button will cause a service interruption while the UCrypt device re-provisions itself with the new working configuration. It is best to make all changes necessary on all configuration pages and apply the changes when completed.*

For detailed information on configuration of this page, go to the ATX website (atxnetworks.com) in the Resources & Support section, User Documents sub-section to download the Installation & Operation Manual.

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OUTPUT MPTS VIEW TAB - CONFIGURATION

12. OUTPUT MPTS VIEW Tab - Configuration

Configure Output programs and multiplexes here:

<div style="text-align: center">⚠️</div>

***NOTE:** Clicking the Apply button will cause a service interruption while the UCrypt device re-provisions itself with the new working configuration. It is best to make all changes necessary on all configuration pages and apply the changes when completed.*

For detailed information on configuration of this page, go to the ATX website (atxnetworks.com) in the Resources & Support section, User Documents sub-section to download the Installation & Operation Manual.

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SYSTEM TAB - CONFIGURATION

13. SYSTEM Tab - Configuration

Access system wide configuration properties here:

System Configuration Tab - Part 1

13.1 Default User Names and Passwords

Default Values				
Account User	**Modify UCrypt® Settings**	**Install Updates**	**Set Passwords**	**Default Password**
master	Yes	Yes	Yes	atx_ucrypt_master_password
admin	Yes	No	No	atx_ucrypt_admin_password
user	No	No	No	atx_ucrypt_user_password

For detailed information on configuration of this page, go to the ATX website (atxnetworks.com) in the Resources & Support section, User Documents sub-section to download the Installation & Operation Manual.

Network

Configuration:

IP Address:	192.168.0.23
Netmask:	255.255.255.0
Gateway:	192.168.0.1
DNS Server:	4.2.2.1
DNS Search Domain:	
DHCP client mode enabled:	☐
DHCP Hostname:	
HTTP Port:	80
HTTPS Port:	443
MAC Address:	00:22:2c:00:00:25

Set Network

Only master/administrator user can set network settings

Health

Diagnostic: Download Diagnostic File

Fans: Front fan 0: OK
Front fan 1: OK
Front fan 2: OK
Front fan 3: OK

Logging

View Log

Alerts

Alert Settings

Channel Map

Channel following policy: Channel Number ▼
Set Following Policy

This setting determines how channels are tracked

Emergency Alert System (SCTE18)

EAS Settings

Switched Digital Video

SDV Settings

Callouts:
- Management Interface IP Address Settings
- Save your network changes
- Download a diagnostic file to the Management computer
- Cooling Fan Status
- View and copy log files
- Set Email and SNMP Alerts
- Set up Channel Following Policy to track program movement in the Channel Map (VCT)
- Configure EAS Settings

System Configuration Tab - Part 2

For detailed information on configuration of this page, go to the ATX website (atxnetworks.com) in the Resources & Support section, User Documents sub-section to download the Installation & Operation Manual.

CONFIGURATION TAB - CONFIGURATION

14. CONFIGURATION Tab - Configuration

Access Mass Deployment and Backup file utilities here:

NOTE: *Clicking the Apply button will cause a service interruption while the UCrypt device re-provisions itself with the new working configuration. It is best to make all changes necessary on all configuration pages and apply the changes when completed.*

For detailed information on configuration of this page, go to the ATX website (atxnetworks.com) in the Resources & Support section, User Documents sub-section to download the Installation & Operation Manual.

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SERVICE & SUPPORT

15. Service & Support

15.1 Contact ATX Networks

Please contact ATX Technical Support for assistance with any ATX products. Please contact ATX to obtain a valid RMA number for any ATX products that require service and are in or out-of-warranty before returning a failed module to ATX.

TECHNICAL SUPPORT

Tel: 289.204.7800 – press 1

Toll-Free: 866.YOUR.ATX (866.968.7289) USA & Canada only
Email: support@atx.com

SALES ASSISTANCE

Tel: 289.204.7800 – press 2

Toll-Free: 866.YOUR.ATX (866.968.7289) USA & Canada only
Email: insidesales@atx.com

FOR HELP WITH AN EXISTING ORDER

Tel: 289.204.7800 – press 3

Toll-Free: 866.YOUR.ATX (866.968.7289) USA & Canada only
Email: orders@atx.com
Web: www.atx.com

15.2 Warranty Information

All of ATX Networks' products have a 1-year warranty that covers manufacturer's defects or failures.

ATX Networks

Tel: 289.204.7800 | Toll-Free: 866.YOUR.ATX (866.968.7289) | support@atx.com

www.atx.com