



DataTronix DT-ATSC-IP-8V2 8 Input ATSC-8VSB-QAM-B to IP Converter User Manual

[Home](#) » [DataTronix](#) » DataTronix DT-ATSC-IP-8V2 8 Input ATSC-8VSB-QAM-B to IP Converter User Manual 

Contents

- [1 DataTronix DT-ATSC-IP-8V2 8 Input ATSC-8VSB-QAM-B to IP Converter](#)
- [2 Safety Precautions](#)
- [3 Package Contents](#)
- [4 Unpacking and Inspection](#)
- [5 Installation](#)
- [6 Introduction to DT-ATSC-IP-8V2 ATSC-8VSB / QAM-B to IP Converter](#)
- [7 Features](#)
- [8 Hardware Installation](#)
- [9 Device Programming and Setup](#)
- [10 Overview Page](#)
- [11 Streaming System Parameters](#)
- [12 Customize the Streaming Setup View](#)
- [13 System Setup](#)
- [14 Firmware Update](#)
- [15 Change Password](#)
- [16 Private Address Ranges, IPv4](#)
- [17 DATATRONIX 1-Year Limited Warranty](#)
- [18 Product Notes](#)
- [19 Documents / Resources](#)
 - [19.1 References](#)
- [20 Related Posts](#)





Safety Precautions

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS DEVICE TO RAIN OR MOISTURE. DO NOT OPEN THE UNIT. REFER SERVICING TO QUALIFIED PERSONNEL ONLY.

- DO NOT apply power to the unit until all connections have been made, all components have been installed and all wiring has been properly terminated.
- DO NOT terminate, change or uninstall any wiring without first disconnecting the unit's power adapter from the device.
- This device is supplied with the appropriately rated power supply. The use of any other power supply could cause damage and invalidate the manufacturer's warranty.
- DO NOT connect the power cord to the device if the power cord is damaged.
- DO NOT cut the power cord.
- DO NOT plug the power cord into an AC outlet until all cables and connections to the device have been properly connected.
- The device should be installed in an environment consistent with its operating temperature specifications. Placement next to heating devices and ducts is to be avoided as doing so may cause damage. The device should not be placed in areas of high humidity.
- DO NOT cover any of the device's ventilation openings.
- DO NOT cover or obstruct the device's fan or fan openings.
- If the device has been in a cold environment allow it to warm to room temperature for at least 2 hours before connecting to an AC outlet.

Package Contents

1. One DT-ATSC-IP-8V2
2. One Power Cable One Installation /
3. Configuration Manual

Unpacking and Inspection

Each unit is shipped factory tested. Ensure all items are removed from the container prior to discarding any packing material. Thoroughly inspect the unit for shipping damage with particular attention to connectors and controls. If there is any sign of damage to the unit or damaged or loose connectors contact your distributor right away.

Installation

System Installer must adhere to Article 820-40 of the NEC that provides guidelines for proper grounding and specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

Introduction to DT-ATSC-IP-8V2 ATSC-8VSB / QAM-B to IP Converter

The DataTronix DT-ATSC-IP-8V2 is a high quality 8VSB / Clear QAM to IP Converter. It was designed to allow system integrators to receive and process up to 8 8VSB (ATSC) / Clear QAM channels and easily convert these signals to produce high-quality IP streams. The DT-ATSC-IP-8V2 is a highly flexible system allowing integrators to quickly receive, convert, and distribute high quality IP streams to their customers.

Features

- Accepts 8 RF inputs (ATSC-8VSB/QAM)
- Allows for Up to 64 Output Programs
- Allows User to “Cherry Pick” Desired Programs as Needed
- Supports STD/HRC/IRC Formats
- Supports Full Range of ATSC-8VSB/QAM Signals
- UDP / RTP Multicast / Unicast
- Easy to Setup and Monitor with GUI
- Front Panel LED Indicators
- High Density 1RU Design

System Parsing / Response Time: The initial System Parsing time will range from 4-6 minutes on average as the system identifies and populates the required parameters. As the user navigates the device’s menu note that a small delay may occur in populating the data on the screen as the system is constantly performing system parsing and system house-keeping functions.

Input	
RF Mode (ATSC-8VSB and QAM)	
Connector	1 x F-Type, Female
Input Impedance	75 ohm
Modulation	ATSC-8VSB ITU J.83 Annex B (64-QAM, 256-QAM)
Tuning Block Freq Range	55 to 861MHz (Center)
Bandwidth	6 MHz
Numbers of Tuner	8
Input Level	0 to 15dBmV
Loop Through	
Connector	1 x F-Type, Female, Passive

Output	
GigE	
Connector	1 x RJ45
Standard	100 / 1000Base-T Ethernet Full/Half Duplex, Auto-Negotiation
IP Streaming Protocol	
UDP/RTP	Unicast / Multicast
Address Assignment	64 x IPv4 SPTS Address and Port Numbers

Web Management	
GigE	
Connector	1 x RJ45
Standard	100 / 1000Base-T Ethernet, Full / Half Duplex, Auto- Negotiation
HTTP	Embedded

GigE	
Connector	1 x RJ45
Standard	100 / 1000Base-T Ethernet, Full / Half Duplex, Auto- Negotiation
UDP / RTP	Supported (user-selectable)
Protocol	SCTE-18 Supported

Local Monitoring	8 x NIM Status LEDs / 1 x Power LED
Local Control	IP Reset Button
GUI Supported	Firefox, Chrome
Password Protected	GUI: Changeable

Power	
Power Supply	12VDC 5.4Amp.
Consumption	23 W Typical
Input Voltage Range	100 to 240 VAC
Input Frequency Range	50 / 60 Hz

Mechanical and Environmental

Chassis (W x D x H)	19.01 x 9.45 x 1.74" (483 x 240 x 44.2 mm)
Weight	7.9 lbs
Operating Temperature	32 to 122°F (0 to 50°C)
Storage and Transportation Temperature	32 to 140°F (0 to 60°C)
Language	English
Warranty	1-Year Limited Warranty

Specifications Subject to Change Without Notice.

Hardware Installation

1. Use properly installed terrestrial antennas. Verify for proper signal reception and signal levels.
2. Properly connect required outputs of terrestrial antennas/splitter feeds to the DT-ATSC-IP-8V2.
3. Apply Power to the DT-ATSC-IP-8V2.
4. Connect an Ethernet cable from Utility Port on the DT-ATSC-IP-8V2 to a PC/MAC.

Device Programming and Setup

Connecting to the GUI Interface

1. Connect an Ethernet cable directly to the utility port on the rear panel of the device or connect the Ethernet cable to an Ethernet switch. Connect an Ethernet cable to your PC/Laptop
2. Modify your PC/Laptop IP address to 192.168.1.11
3. Enter default IP address for DT-ATSC-IP-8V2 into your web browser (Suggested Browser: Firefox or Chrome)

- Factory Default IP: 192.168.1.9

System Setup via GUI Interface

After connecting the device to the GUI interface (please see descriptions above):

1. Enter device's IP address in web browser.
2. Login: Enter unit Name/Password

Name: admin / Password: Admin123

To view this page, you must log in to area "Protected" on 218.161.34.88:8104.
Your password will be sent unencrypted.

Name:

Password:

☐ Remember this password in my keychain

Cancel Log In

Note: To modify the system password, go to the [Administration Page] of the device.

Overview Page

- [Overview Page] provides an overall system status of the DT-ATSC-IP-8V2 including: RF Input Type, Frequency, SNR, Signal Status, and Programs**.

Overview

Ingest Setup

Streaming Setup

Network Setup

System Setup

Administration

Device Name	Model Number	Serial Number	MAC Address	Firmware Version	Net Version	
NACE316047	DT-ATSC-IP-8V2	2113 316047	F8:0D:EA:B4:D2:8F	3.1.17	1.0.20	
Location		Description				
<div><div>Ingest</div><div>Stream</div><div>Fan</div></div>						
RF Input	Standard	Frequency	Constellation	SNR	Status	Programs
1	ATSC	57.0000 MHz	8 VSB	33.0 dB	Lock	2 ⓘ
2	ATSC	177.0000 MHz	8 VSB	32.0 dB	Lock	2 ⓘ
3	ATSC	183.0000 MHz	8 VSB	32.4 dB	Lock	2 ⓘ
4	ATSC	189.0000 MHz	8 VSB	32.4 dB	Lock	2 ⓘ
5	QAM	549.0000 MHz	256 QAM	34.9 dB	Lock	8 ⓘ
6	QAM	621.0000 MHz	256 QAM	35.8 dB	Lock	8 ⓘ
7	QAM	753.0000 MHz	256 QAM	32.4 dB	Lock	8 ⓘ
8	QAM	831.0000 MHz	256 QAM	30.9 dB	Lock	8 ⓘ

- Programs : If you move your cursor to " ⓘ " you will see the detail information (see figure below as example) of the Programs.

Status

Programs

Lock

2 ⓘ

Lock

2 In 2 Ready / 2 Out 2 Ready

Lock

2 ⓘ

- Overview (Stream Output): Showing stream destinations, bitrate, status

Overview

Ingest Setup

Streaming Setup

Network Setup

System Setup

Administration

Device Name	Model Number	Serial Number	MAC Address	Firmware Version	Net Version
NACE316047	DT-ATSC-IP-8V2	2113 316047	F8:0D:EA:B4:D2:8F	3.1.17	1.0.20
Location		Description			

- Overview (Fan): This tab shows fan status and system uptime

Yasuo2022 - Comments of ATSC / DAB to DAB

Overview

Ingest Setup

Streaming Setup

Network Setup

System Setup

Administration

Device Name	Model Number	Serial Number	MAC Address	Firmware Version	Net Version
NACE316047	DT-ATSC-IP-BV2	2113 316047	F8:0D:EA:B4:D2:8F	3.1.17	1.0.20
Location			Description		

Ingest

Stream

Fan

System UTC Time

Wed, 03 Nov 2021

19:00:05

Uptime

00H25M54S

Fan	Fan Speed	Fan Status
1	7941 RPM	OK
2	7941 RPM	OK
3	7941 RPM	OK

Ingest Setup

Use the [Ingest Setup] page to configure each input. Up to 8 – ATSC or QAM inputs can be assigned.

Overview Ingest Setup Streaming Setup Network Setup System Setup Administration				
Ingest Setup				
This page allows the user to configure the device's screen settings.				
Enable	Standard	Constellation	Frequency(MHz)	
<input checked="" type="checkbox"/> 1	ATSC : 8VSB	8 VSB	2 (57.0000 MHz)	
<input checked="" type="checkbox"/> 2	ATSC : 8VSB	8 VSB	7 (177.0000 MHz)	
<input checked="" type="checkbox"/> 3	ATSC : 8VSB	8 VSB	8 (183.0000 MHz)	
<input checked="" type="checkbox"/> 4	ATSC : 8VSB	8 VSB	9 (189.0000 MHz)	
<input checked="" type="checkbox"/> 5	QAM : STD	256 QAM	78 (549.0000 MHz)	
<input checked="" type="checkbox"/> 6	QAM : STD	256 QAM	90 (621.0000 MHz)	
<input checked="" type="checkbox"/> 7	QAM : STD	256 QAM	117 (753.0000 MHz)	
<input checked="" type="checkbox"/> 8	QAM : STD	256 QAM	130 (831.0000 MHz)	
<input type="button" value="Save and Confirm"/> <input type="button" value="Cancel"/>				

Ingest Setup Procedures

1. Select Ingest setup tab from the top menu
2. Select the appropriate ingest input (1 thru 8). Enable as required
3. Select Standard: ATSC or QAM
 - ATSC: 8VSB / QAM: STD / QAM: HRC / QAM: IRC
4. Select Constellation: For QAM select 64-QAM or 256-QAM as required
5. Select Frequency (MHz) (Input)
 - ATSC-8VSB: UHF (CH 14 - 69) VHF (CH 2-13)
 - QAM: CH 2 - CH 135 (57 MHz to 861 MHz)
6. Save and Confirm to save all changes

Note: Leaving any ingest setup page without saving the set parameters will cause the device to revert to the last saved settings.

Streaming Setup

Use the [Streaming Setup] page to set the Output: TS ID, stream destination, and TTL (Time to Live)

Streaming Setup

This page allows the user to configure the streaming settings. Enter the **Programing Destination** and **TTL** information for each Program. Use the **Save and Confirm** button to save any changes made. The Streaming engine will apply the new settings.

Input										Output		
	Input * PMT PID	Video PID	Audio PID	TS ID	SID	Short Name	Long Name	Bit Rate		TS ID	Streaming Destination	TTL
<input checked="" type="checkbox"/>	1	4199	4197	4198	44	1	DTV-101	ATSC-digi-TV-101	8.502	1	rtp://224.1.1.1:10000	4
<input checked="" type="checkbox"/>	2	4181	4179	4180	44	2	DTV-201	ATSC-digi-TV-201	8.502	1	rtp://224.1.1.2:10000	4
<input type="checkbox"/>	3	4184	4182	4183	45	3	DTV-301	ATSC-digi-TV-301	8.517	1	rtp://224.1.1.1:10000	4
<input type="checkbox"/>	4	4187	4185	4186	45	4	DTV-401	ATSC-digi-TV-401	8.536	1	rtp://224.1.1.2:10000	4
<input type="checkbox"/>	5	4190	4188	4189	46	5	DTV-501	ATSC-digi-TV-501	8.520	1	rtp://224.1.1.3:10000	4
<input type="checkbox"/>	6	4196	4194	4195	46	6	DTV-601	ATSC-digi-TV-601	8.501	1	rtp://224.1.1.4:10000	4
<input type="checkbox"/>	7	4193	4191	4192	47	7	DTV-701	ATSC-digi-TV-701	8.536	1	rtp://224.1.1.5:10000	4

Enable / Select / and Setup Streams

1. Enable Each stream/program as required by checking the check box

Note: To remove a stream/program – deselect/uncheck the stream(s) # on the left side of the table

2. Modify TS ID (Output Transport Stream ID)
3. Setup output streaming destination IP stream format / examples:
 - rtp://IP_address:Port_ID
 - rtp://224.1.1.1:10000
 - udp://IP_address:Port_ID
 - udp://224.1.1.10.50001
4. Save and Confirm all parameters

Note: Leaving any streaming setup page without saving the set parameters will cause the device to revert to the last saved settings.

Streaming System Parameters

Input	
Input No.	Total Input Number Received by Tuner
PMT PID	Program Map Table PID
Video PID	Video Stream PID
Audio PID	Video Stream PID
TS ID	Input Transport Stream ID
SID	Service ID (Program ID)
Short Name	From Content Provider
Long Name	From Content Provider
Bit Rate	Input Bit Rate

Output	
TS ID	Transport Stream ID – Selectable
Streaming Destination: Port ID	IP Stream:Port_ID – Definable
TTL	Time To Live- Selectable

Customize the Streaming Setup View

The [Streaming Setup] parameters page is easily customizable for each system. To customize the parameters shown:

1. Select “Select Columns” Tool

The screenshot shows the 'Streaming Setup' page with a table of input parameters. A tooltip labeled 'Select Columns' is visible over the table. The table has columns: Input * PMT PID, Video PID, Audio PID, TS ID, SID, Short Name, Long Name, and Bit Rate. The data rows are:

	Input * PMT PID	Video PID	Audio PID	TS ID	SID	Short Name	Long Name	Bit Rate
	4199	4197	4198	44	1	DTV-101	ATSC-digi-TV-101	8.506
<input checked="" type="checkbox"/> 2	4181	4179	4180	44	2	DTV-201	ATSC-digi-TV-201	8.506
<input type="checkbox"/> 3	4184	4182	4183	45	3	DTV-301	ATSC-digi-TV-301	8.507

2. Add or remove parameter as needed by selecting or deselection

The 'Select Columns' dialog box is shown with three sections: Input Columns, Others, and Output Columns. Each section has a list of checkboxes for selecting or deselecting parameters. Below the sections is a dropdown menu for 'Default Select Columns on Loading'.

Input Columns	Others	Output Columns
<input checked="" type="checkbox"/> Input	<input checked="" type="checkbox"/> Bit Rate	<input checked="" type="checkbox"/> TS ID
<input checked="" type="checkbox"/> PMT PID		<input checked="" type="checkbox"/> Streaming Destination
<input checked="" type="checkbox"/> Video PID		<input checked="" type="checkbox"/> TTL
<input checked="" type="checkbox"/> Audio PID		
<input checked="" type="checkbox"/> TS ID		
<input checked="" type="checkbox"/> SID		
<input checked="" type="checkbox"/> Short Name		
<input checked="" type="checkbox"/> Long Name		

Default Select Columns on Loading:

Close

3. Close window after selecting / deselecting parameters 12

Network Setup

Yousang Kim's Course of ETIC / Q&A to Q&A

OverviewIngest SetupStreaming SetupNetwork SetupSystem SetupAdministration

Network Setup

This page allows the user to configure the device's network settings.

Management

IP Streaming Out

Hostname	NACE316047
MAC Address	F8:0D:EA:B4:D2:8F
DHCP	<input type="checkbox"/>
IP Address	192.168.8.78
Subnet Mask	255.255.255.0
Default Gateway	192.168.8.254
DNS Server 1	8.8.8.8
DNS Server 2	

Save and Confirm

Cancel

Device IP Address Setup

1. Select network setup tab to manage the IP address for utility port
2. Modify hostname as required
3. Select DHCP or static IP
4. For Static IP: select static IP and enter static IP address for utility port
5. Enter Subnet Mask
6. Enter Default Gateway
7. Enter DNS Server 1 Address
8. Enter DNS Server 2 Address (if Required)
9. Save and Confirm all changes

Streaming Port IP Address Setup

1. Select network setup tab to manage the IP address for IP out port
2. Select DHCP or Static IP
3. For Static IP: select static IP and enter static IP address for IP out port
4. Enter Subnet Mask
5. Enter Default Gateway
6. Save and Confirm all changes

Forgot IP Address

You can return to the default IP address (factory default) setting from via front panel by following the steps below:

1. Press the reset button from the front panel (Circled in picture below)



2. Power on the unit
3. Release the reset button once the power LED stops flashing and become static green
4. Unit's IP address will revert back to default IP: 192.168.1.9
5. Unit's login data will revert back to factory default Name: admin / Password: Admin123 ‘

Note: ONLY THE IP ADDRESS WILL GO BACK TO DEFAULT SETTING, NO CHANGES WILL BE MADE TO THE CONFIGURATIONS

System Setup

Description

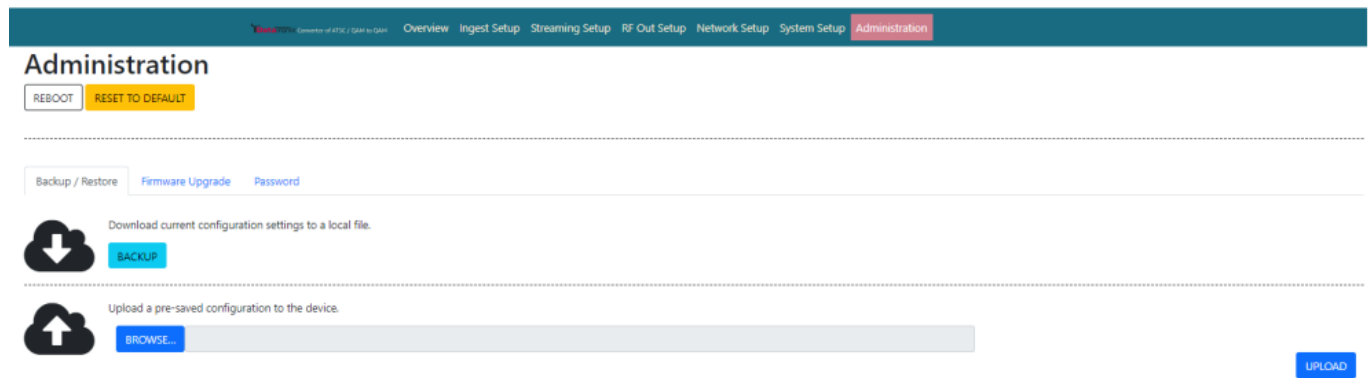
Use the [System Setup Page] to designate location and description of the DT-ATSC-IP-8V2 unit.

Time / NTP Server Setup

Use the time tab to set the units system time and time zone and NTP server.

1. Select time tab on system setup page
2. Select time zone from the drop-down tool
3. Enter NTP Server 1 / 2 addresses as required
4. Select synchronize system with PC clock as required
5. Select apply to apply all changes

Administration



Reboot

Use the Reboot button to reboot the device. No parameters will be changed.

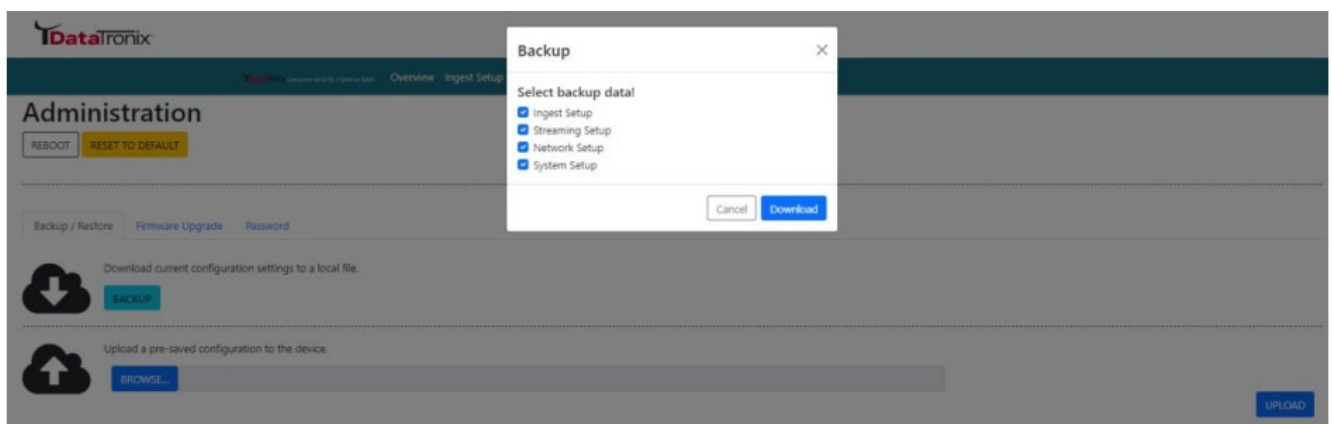
Reset to Default

Use the Reset to Default button to reset all parameters to original factory settings.

Backup

We highly recommend saving your device's setting.

1. Select administration tab
2. Select backup from the menu
3. Locate and Name file for future use
4. User can choose which data to backup from the following pages: Ingest setup / Streaming setup / Network setup / System setup



Note: Backup can be imported to assist in setting up new or multiple devices onsite. Remember to save and backup any and all changes.

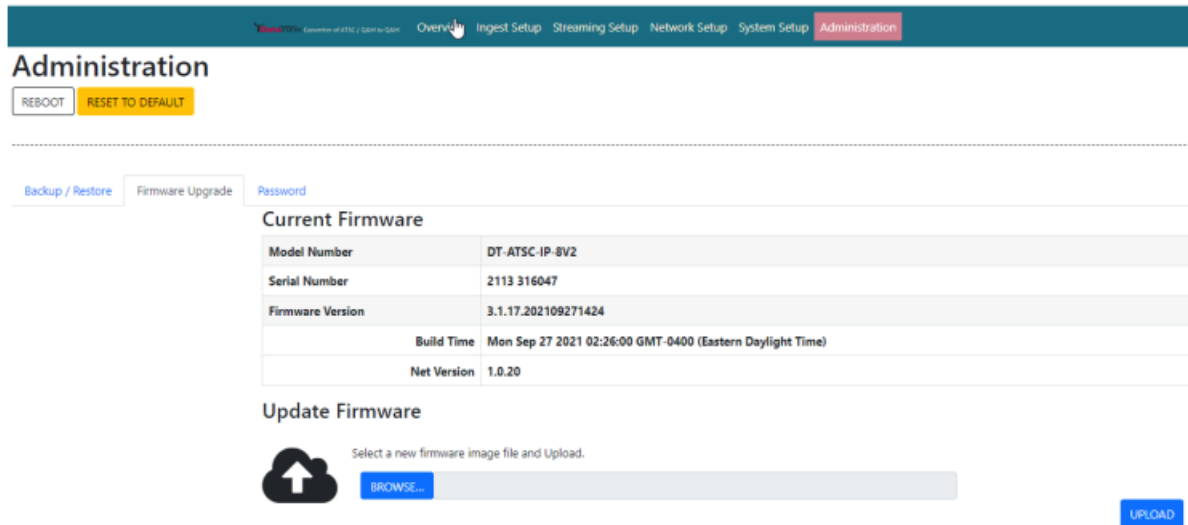
Restore

1. Select administration tab
2. Browse the required file to be imported
3. Select "Upload" to import the selected file into the device

Note: Do not power off the unit while importing.

Firmware Update

Use the firmware upgrade section to import new FW version.




The screenshot shows the 'Administration' page of a device. At the top, there is a navigation bar with tabs: Overview, Ingest Setup, Streaming Setup, Network Setup, System Setup, and Administration (which is highlighted). Below the navigation bar, the 'Administration' section has two buttons: 'REBOOT' and 'RESET TO DEFAULT'. The 'Firmware Upgrade' tab is selected, showing the 'Current Firmware' table and the 'Update Firmware' section.

Current Firmware	
Model Number	DT-ATSC-IP-8V2
Serial Number	2113 316047
Firmware Version	3.1.17.202109271424
Build Time	Mon Sep 27 2021 02:26:00 GMT-0400 (Eastern Daylight Time)
Net Version	1.0.20

Update Firmware

Select a new firmware image file and Upload.

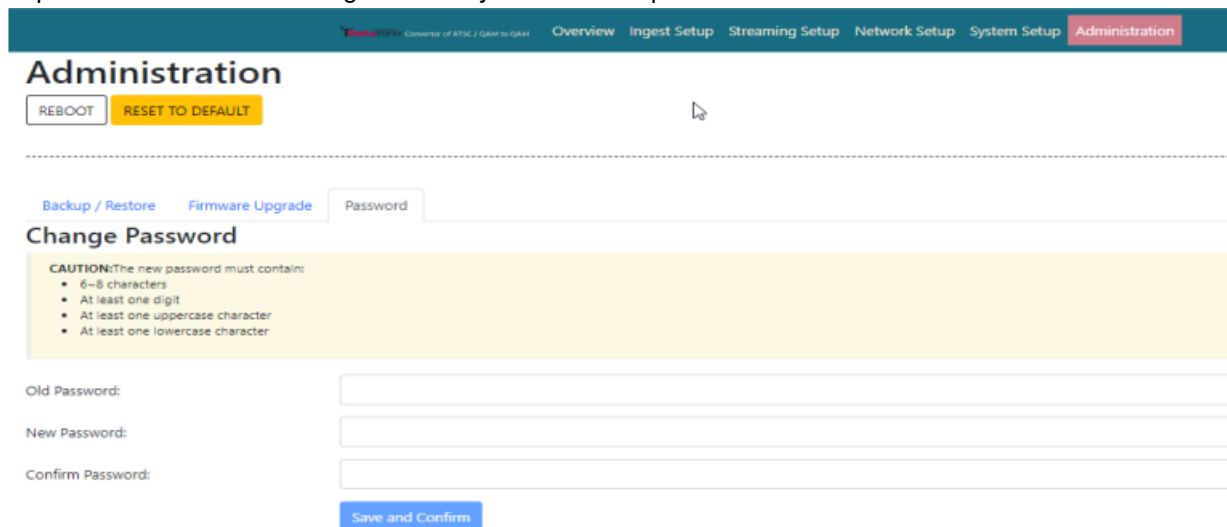


1. Select administration tab
2. Select firmware upgrade tab
3. Browse to locate the required image file to be uploaded
4. Select "Upload" to import the selected file into the device

Note: Do not power off the unit while importing.

Change Password

Use the password section to change or modify the device's password as desired.



The screenshot shows the 'Administration' page of a device. At the top, there is a navigation bar with tabs: Overview, Ingest Setup, Streaming Setup, Network Setup, System Setup, and Administration (which is highlighted). Below the navigation bar, the 'Administration' section has two buttons: 'REBOOT' and 'RESET TO DEFAULT'. The 'Password' tab is selected, showing the 'Change Password' section.

Change Password

CAUTION: The new password must contain:

- 6–8 characters
- At least one digit
- At least one uppercase character
- At least one lowercase character

Old Password:

New Password:

Confirm Password:

1. Select administration tab
2. Select password tab
3. Follow listed instructions
4. Save and Confirm to apply new password.

Private Address Ranges, IPv4

Private IPv4 addresses are addresses set aside by the IANA (Internet Assigned Numbers Authority) for use within networks that will not directly communicate or not be seen by the internet. These private addresses cannot be used on the Internet or be used to communicate with the Internet. ISP's filter out and delete packets using private IP addresses. Any organization that uses private IP addresses on devices that communicate with the internet must use a device that performs Network Address Translation. Anyone can use private addresses and they are not required to seek permission to use them. Again, networks using private IP addresses cannot communicate directly with the internet.

There are three blocks of addresses that are set aside by IANA for use in private internets and are not publicly routable on the global internet:

- Private Class A Range: 10.0.0.0 – 10.255.255.255
- Private Class B Range: 172.16.0.0 – 172.31.255.255
- Private Class C Range: 192.168.0.0 – 192.168.255.255

It is important to note that only some of the 172.xx.xx.xx and the 192.xx.xx.xx address ranges are designated for private use. The remaining addresses are public and can be routable via the global Internet.

More information regarding private addresses can be found at <http://www.iana.org> and <https://www.arin.net>.

DATATRONIX 1-Year Limited Warranty


DATATRONIX. (the "Company") warrants to the Original Purchaser that the item purchased is free from defects in workmanship or material under normal use. This warranty starts on the date of shipment of the hardware to the Original Purchaser. During the warranty period, the Company agrees to repair or replace, at its sole option, without charge to Original Purchaser, any defective component. To obtain service, the Original Purchaser must return the item to the Company properly packaged for shipping. All defective products must be returned to the Company within thirty (30) days of failure. Products must be returned with a description of the failure and Return Merchandise Authorization (RMA) number supplied by the Company. To receive a RMA number and a return shipping address on where to deliver the hardware, call 610-429-1821. The shipping, and insurance charges incurred in shipping to the Company will be paid by Original Purchaser, and all risk for the hardware shall remain with the Original Purchaser until such time as Company takes receipt of the hardware. Upon receipt, the Company will promptly repair or replace the defective unit, and then return said unit to Original Purchaser, shipping prepaid. The Company may use reconditioned or like-new parts or units, at its sole option, when repairing any hardware. Repaired products shall carry the same amount of outstanding warranty as from original purchase. Any claim under the warranty must include dated proof of purchase or invoice. In any event, the Company's liability for defective hardware is limited to repairing or replacing the hardware. This warranty is contingent upon proper use of the hardware by Original Purchaser and does not cover: if damage is due to Acts of God (including fire, flood, earthquake, storm, hurricane or other natural disaster), accident, unusual physical, electrical, or electromechanical stress, modifications, neglect, misuse, operation with media not approved by the Company, tampering with or altering of the hardware, riot, war, invasion, act of foreign enemies, hostilities (regardless of whether war is declared), civil war, rebellion, revolution, insurrection, military or usurped power or confiscation, terrorist activities, nationalization, government sanction, blockage, embargo, labor dispute, strike, lockout or interruption or failure of electricity, air conditioning, or humidity control, internet, network, or telephone service. The warranties given herein, together with any implied warranties covering the hardware, including any warranties of merchantability or fitness for a particular purpose, are limited in duration to one year from the date of shipment to the Original Purchaser. Jurisdictions vary with regard to the enforceability of warranty limitations, and you should check the laws of your local jurisdiction to find out whether the above limitation applies to you. The Company shall not be liable to you for loss of data, loss of profits, lost savings, special, incidental, consequential, indirect, or other similar damages arising from breach of warranty, breach of contract, negligence, or other legal action even if the Company or its agent has been advised of the possibility of such damages, or for any claim brought against you by another party. Jurisdictions vary with regard to the enforceability of provisions excluding or limiting liability for incidental or consequential damages. You should check the laws of your local jurisdiction to find out whether the

above exclusion applies to you. This warranty allocates risks of product failure between Original Purchaser and the Company. The Company’s hardware pricing reflects this allocation of risk and the limitations of liability contained in this warranty. The warranty set forth above is in lieu of all other express warranties, whether oral or written. The agents, employees, distributors, and dealers of the Company are not authorized to make modification to this warranty, or additional warranties binding on the Company. Accordingly, additional statements such as dealer advertising or presentations, whether oral or written, do not constitute warranties by the Company and should not be relied upon. This warranty gives you specific legal rights. You may also have other rights which vary from one jurisdiction to another.

Product Notes

Model Number:	
Serial Number:	
Purchase Date:	
Purchased from:	
Install Date:	

Documents / Resources

	DataTronix DT-ATSC-IP-8V2 8 Input ATSC-8VSB-QAM-B to IP Converter [pdf] User Manual DT-ATSC-IP-8V2 8 Input ATSC-8VSB-QAM-B to IP Converter, DT-ATSC-IP-8V2, 8 Input ATSC-8VSB-QAM-B to IP Converter, ATSC-8VSB-QAM-B to IP Converter, IP Converter, Converter
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References

- [Internet Assigned Numbers Authority](#)
- [American Registry for Internet Numbers](#)