


Please Register Your One-Net

To verify that you have the latest version of software in your One-Net it's important to register your device with Monroe Electronics. To register go to www.monroe-electronics.com and click on R189 Update Registration, under EAS Systems and Products, and submit your information. You will be notified by Email of the latest updates and enhancements that can be downloaded from our website.

R189 Registration for updates - Microsoft Internet Explorer



Update Registration

R189 *One-Net* Analog / Digital EAS Encoder / Decoder

* Name:

* Company:

Title:

Street Address:

P.O. Box:

City/Town:

State:

ZIP Code:

* Email:

* Phone:

* R189 Serial Number:

Date Purchased:

Where Purchased:

* Required Fields

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VERSION 1.8-1

Quick Start Up Guide for the R189 One-Net

1. What comes with your One-Net

- A CD that has the full version of the Manual.

2. Getting Started

You will need the following before starting the setup.

- FCC number. This ID number is used in all correspondence with your Cable Head End and the FCC.
- County name for the location where the equipment will be installed. And county names for the area you are broadcasting to. These county names will be converted to FIPS Code(s) in the One-Net.
- Radio frequencies for your LP1 and LP2. These are the approved radio stations for your area and can be obtained by through your EAS chairman for your state. If a NOAA station will be monitored that must also be obtained.
- IP address for the One-Net. This must be obtained from your system administrator to make sure there are no other devices on your network with this address.

3. Logging into the unit.

The three ways to connect to the One-Net are:

Using a VGA monitor, keyboard, and mouse with a One-Net

To configure the One-Net:

- Connect the VGA monitor, keyboard and mouse connected to the correct ports on the back of the One-Net.
- Then power up and wait for the One-Net to boot and become fully operational. Make sure the VGA monitor is powered on.
- You will be presented with a login prompt on the VGA monitor. Type in the user name of "root" (without parenthesis). The default password is "dasdec1".
- After login, the One-Net presents a shell prompt.
- The typical task at this point is to launch a desktop user interface. Type the command 'startx' and then pres the Enter key. This will run the KDE desktop windowing user interface.

- Wait for the desktop to fully launch. Once the desktop is ready, run the provided One-Net browser app by clicking the icon labeled One-Net Web Interface. This launches a browser, which will automatically access the One-Net web server Login page. Follow the instructions for Section 4.2 below for logging into the One-Net using the Web login page. Everything you will need to do to setup the One-Net for operation and remote network access will be available from within the Web interface. There is a built in administrative user (Admin) for the One-Net Web Interface. The default password for Admin is “dasdec”.
- After you are finished with the One-Net KDE desktop, logout using the right mouse button popup screen to select "Logout". After a few seconds, the desktop will exit and you will be back at the shell prompt.
- Once configured, the One-Net is designed to operate “headless” (without monitor, keyboard, and mouse). The preferable means of One-Net access is via a Web browser from another computer over the LAN. In fact, while the One-Net can operate with the KDE desktop enabled, the KDE desktop consumes much memory and extra CPU speed. The provided KDE desktop applications are meant as conveniences and tools during One-Net configuration. These should not be used indiscriminately during normal One-Net operation. Using applications from the desktop during normal operation can interfere with the reliable performance of the decoder software.

Directly connecting a networked host computer

Connect a CAT-5 network crossover cable to the RJ45 port at the back of the One-Net and to the RJ45 port of the network interface card (NIC) of a standalone PC or notebook computer. Configure the standalone PC to use the static IP address 192.168.0.201 with a net mask of 255.255.0.0. After One-Net power up and booting, it can be accessed via a Web browser on the host computer.

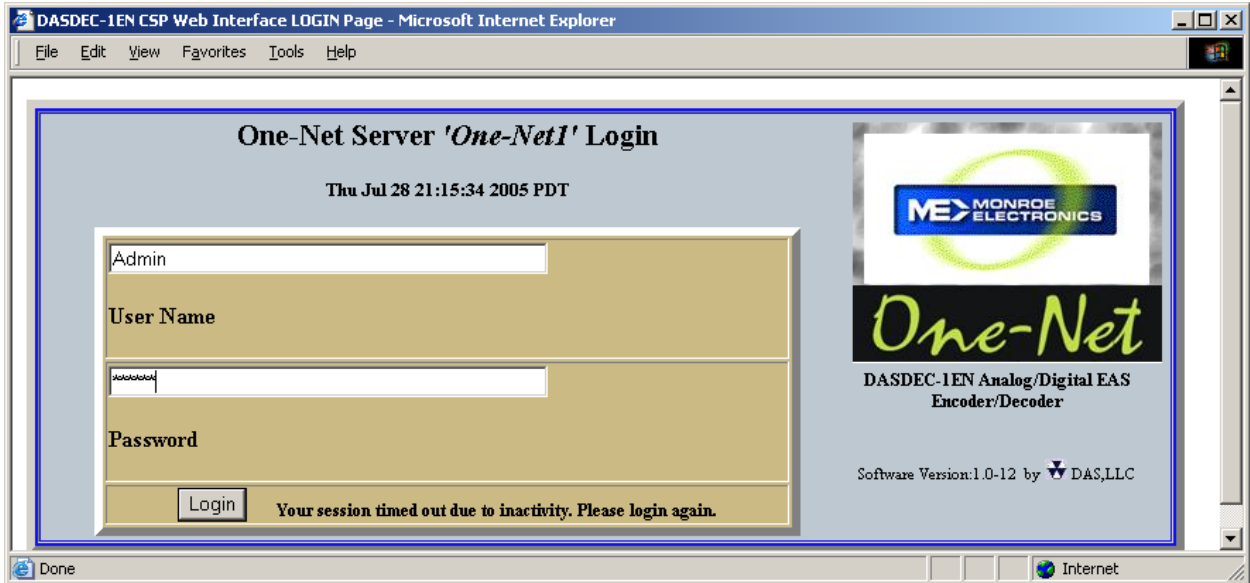
Now launch a Web browser application and direct the URL to <http://192.168.0.200/>. The One-Net will provide a gateway page and quickly redirect to the One-Net login page.

LAN connection with a networked host computer

Connect a standard CAT-5 network cable from the RJ45 port at the back of the One-Net into a routing hub or other network-switching device. You will likely need assistance from a network administrator to insure the One-Net’s default network address of 192.168.0.200 will be visible on the network, or will not clash with an existing node. Once the One-Net is powered up, booted, and operational, it can be accessed via a Web browser from any remote computer on the LAN routed to see the address 192.168.0.200.

Web Server Login

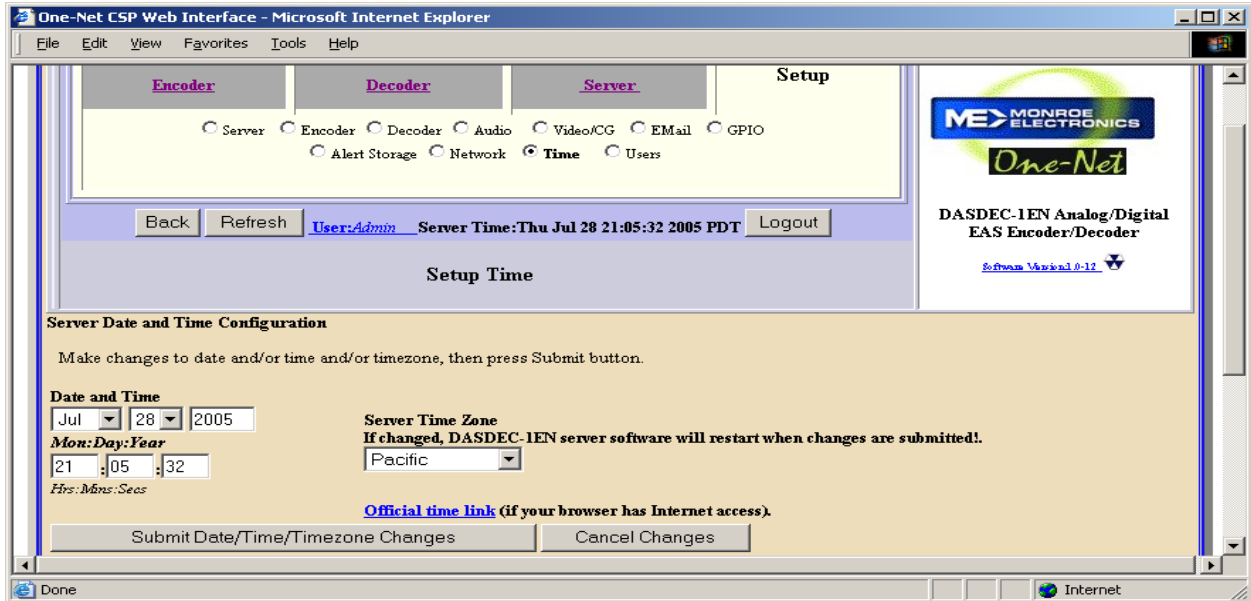
When the One-Net successfully connects for a Web session, it will present the following page in the Web browser.



Type "Admin" (no quotes) as the default user name, and "dasdec" (again, without quotes) as the password. Press the left mouse button over the Login button. With the correct user name and password, the One-Net will login. If the user or password is incorrect, the One-Net will display a message indicating the problem. If the One-Net is left unattended for 10 minutes, it will automatically logout. A message indicating session timeout will be displayed on the login screen.

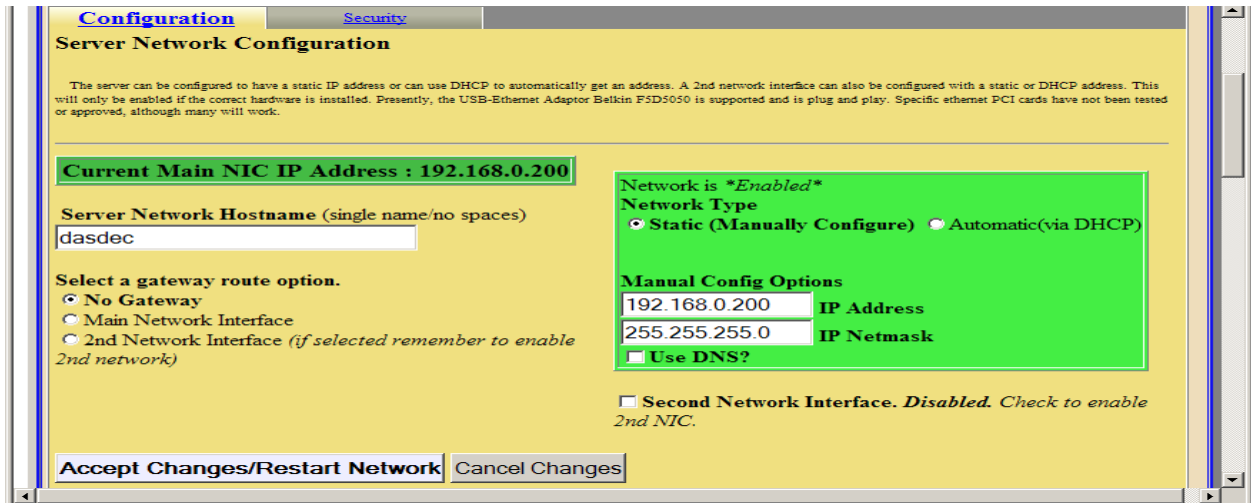
4. Setting the time.

- Click on the Setup tab, followed by the Time button.
- If necessary, change the Time and Time Zone.
- After the changes are complete, click on the Submit Date/Time/Timezone Changes button.



5. Programming a static IP address for the One-Net

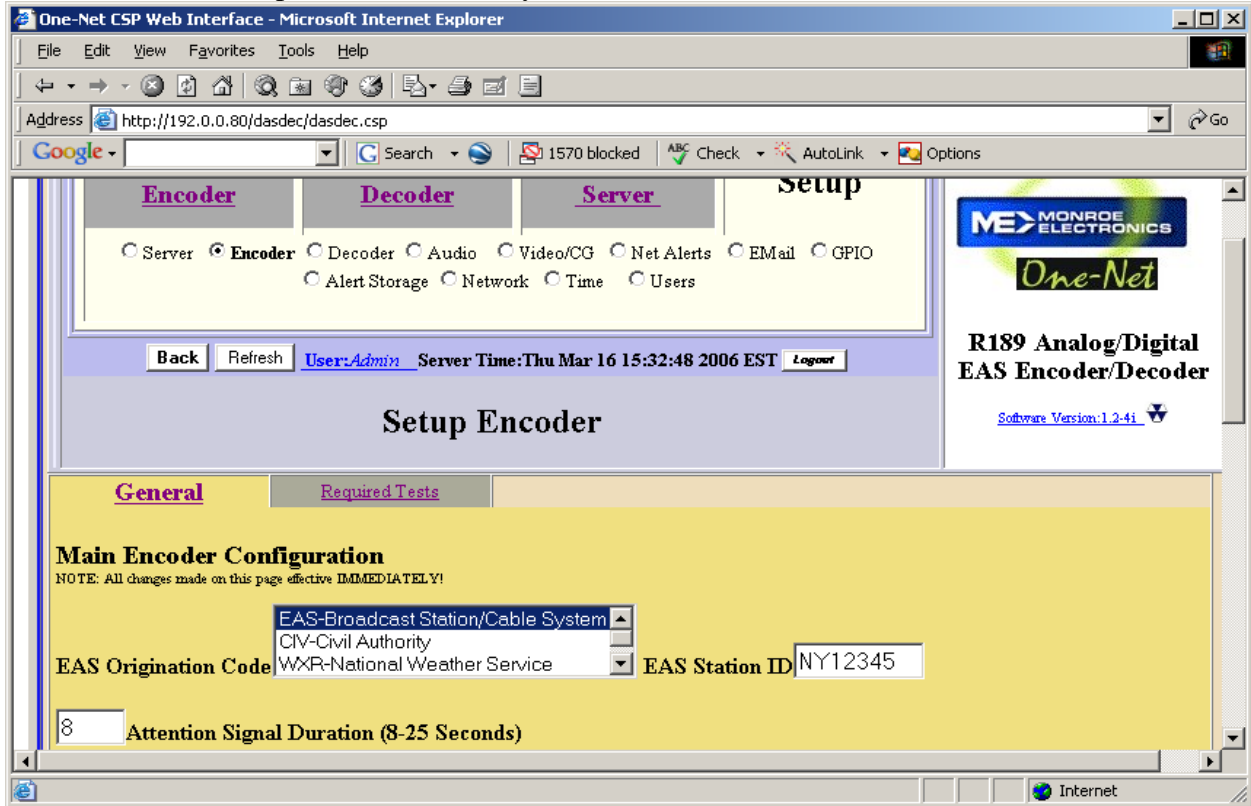
- Click on the Setup tab, followed by the Network button.
- Enter a static IP address. If necessary change the Subnet Mask.
- After the changes are complete, click on the Accept Changes button.



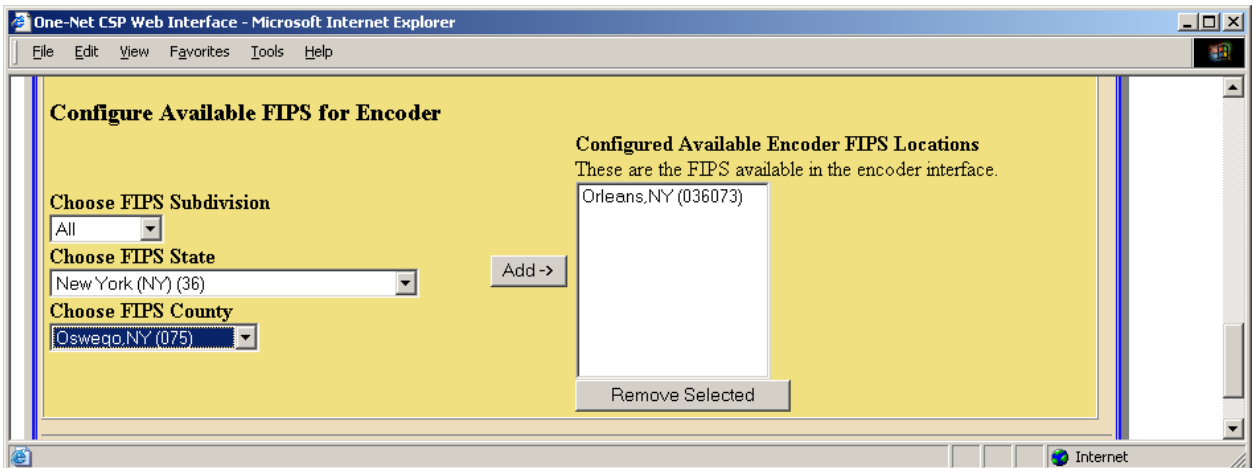
6. Setting up the Encoder

- Click on the Setup Tab, the Encoder button and the General tab.

- Enter the EAS Station ID for your location. This ID starts with the abbreviation for your state, followed by a series of numbers. This ID is used with all correspondence between your Cable Head End and the FCC.



- Configure the available FIPS codes.
 - Select the State and county(s) where the alert will be broadcast. Once it has been selected, click the Add button to add it to the available list. If you are broadcasting the alert to more than one county, repeat this step until all of the counties are added.



- Click on the Required Tests tab (**Not available on Decoder only models**) to configure the Automatic Required Weekly Test.

- Place a check in the box to enable the Random Automatic Weekly Test. The following display will be shown. You can edit the times and days that you want the Automatic Required Weekly Test to occur by changing the Between times, and the On Days followed by clicking the Accept Time Changes button.

[Back](#) | [Refresh](#) | 192.0.0.123<=> | [User:Admin](#) | [Server Time:Mon Jan 21 16:32:41 2008 EST](#) | [Logout](#)

**R189 Analog/Digital
EAS Encoder/Decoder**
TDX Enabled
Software Version: 1.8-0

Setup Encoder Required Weekly Test Options

General

Required Tests

Encoder Required Test Configuration
NOTE: Changes made on this page effective IMMEDIATELY, except for time value changes, for which you must click Accept Time Changes.

Automatic Random Required Weekly Test Generation. Enabled. *Uncheck to disable (effective immediately).*

Required Weekly Tests are automatically generated.
Notes: 1. If 1st time is greater than 2nd time, alert is scheduled from 0 hrs Midnight to 2nd time or 1st time to 23:59.
2. A random Automatic Weekly test is only scheduled if no weekly tests have been originated during the current week (Sun-Sat).
3. If changes are made, a previously scheduled weekly test must be manually cancelled before a new test will be scheduled within the new time frame. See [Encoder->Originated Alerts](#).

MUST Configure FIPS codes for One-Button RWT Alert below!

Between Time

:

Hrs:Mins

and Time

:

Hrs:Mins

Accept Time Changes

Cancel Time Changes

On days: *Checked days are candidates for RWT, unchecked days are omitted (effective immediately).*

Sun
 Mon
 Tue
 Wed
 Thu
 Fri
 Sat

Configure One-Button and Automatic Weekly Test

Set FIPS locations for One-Button Weekly Test
For each Location, Select a FIPS, then Add Selected FIPS
[\(FIPS list can be configured\)](#)

Orleans.NY (036073)

Add Selected FIPS

Optional Pre-Alert Audio Announcement *This is played before the EAS header audio.*

Optional Post-Alert Audio Announcement *This is played after the EAS EOM audio.*

Goto to --> [Setup Audio Output Levels](#)

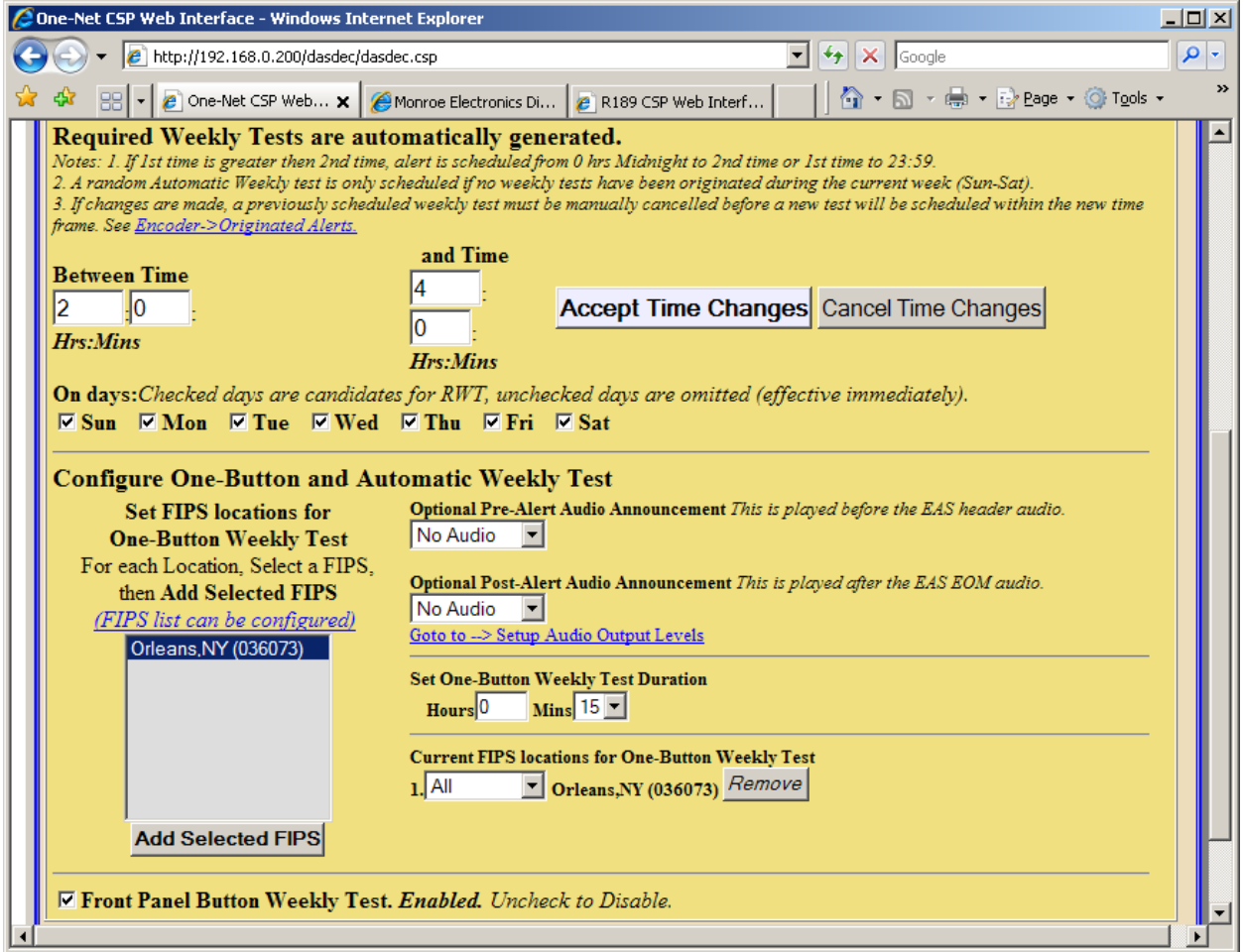
Set One-Button Weekly Test Duration

Hours Mins

Need to Add FIPS Codes

Front Panel Button Weekly Test. Enabled. *Uncheck to Disable.*

- Click on the FIPS code from the list for the County where the unit is installed and Click on the Add Selected FIPS button. This county will be used in the Automatic Weekly test Message. The following display will be shown.



7. Setting up the Decoder

- Click on the Setup tab, the Decoder button and the FIPS ID tab. (Note: This tab is not displayed on an Encoder/Decoder.)
 - Select the State and County where the unit is installed.

The screenshot displays the One-Net CSP Web Interface. At the top, there are three tabs: **Decoder**, **Server**, and **Setup**. The **Setup** tab is active, showing a configuration page for the Decoder. Below the tabs, there are radio buttons for various settings: Server, Decoder, Audio, Video/CG, Net Alerts, EMail, GPIO, Printer, Alert Storage, Network, Time, and Users. On the right side, there is a logo for **ME MONROE ELECTRONICS** and **One-Net**, along with the text **R189 Analog/Digital EAS Encoder/Decoder** and **Software Version: 1.7-0**. Below the tabs, there are links for **FIPS ID**, **Forwarding**, and **Local Access Forwarding**. The **FIPS ID** section is highlighted in yellow and contains the following information: **Decoder Station FIPS Identity**, a note stating "NOTE: All changes made on this page effective IMMEDIATELY!", the current configuration **036073 Orleans, NY**, and two dropdown menus: **Set Decoder Station FIPS State ID** (set to New York (NY) (36)) and **Set Decoder Station FIPS County ID** (set to Orleans, NY (073)). At the bottom, there are links for **Back**, **Refresh**, **Current Status**, **Op Log**, and **Web Session Log**.

- Click on the Forwarding tab and set the Forwarding Station ID. This ID starts with the abbreviation for your state, followed by a series of numbers. This ID is used with all correspondence between your Cable Head End and the FCC.
- The One-Net is defaulted to forward all alerts no matter what type or what FIPS, county, code they have. Removing the check marks from the last two boxes on this page will allow you two customize what alerts will be sent out on your system.

Forwarding Local Access Forwarding

Decoder Forwarding Configuration.
 When an EAS alert is decoded it can be held silently on the server or can be *forwarded* over any of the audio & network outputs, and display a video message out of the serial port controlled character generator and One-Net video output. Make sure the character generator is properly configured, connected to the One-Net serial port, and enabled from the One-Net. The current serial port configuration setting is displayed below. This setup page has controls for setting manual and auto-forwarding and for selective auto-forwarding based on EAS code type and FIPS locations. **NOTE: All changes made on this page effective IMMEDIATELY!**

Forwarding EAS Station ID

Forwarding Attention Signal Duration (8-25 Seconds)

Forward audio message in decoded Weekly Tests. *Disabled, check to Enable Weekly Test Audio Forwarding/Review Editing.*

Forwarding Serial Protocols are: [CEMS](#). [Follow link to configure.](#)

Configure Auto or Manual Forwarding Operation
 Use the 3 checkboxes in this section to control Auto and Manual Forwarding. With Auto-Forwarding mode enabled, decoded alerts which are allowed to auto-forward will immediately play (*see EAS & FIPS auto-forward config below*). With Manual mode enabled, all decoded alerts are held until manually forwarded from the [Decoder->Incoming/Decoded Alerts page](#). Also, two different timers can be programmed to schedule switching between Auto/Manual mode.

Auto-Forward Mode. Enabled. *Uncheck to disable Auto-Forward and enable Manual Alert Forwarding. Configure EAS & FIPS code filters below.*

Forward Mode Timer 1. Disabled

Forward Mode Timer 2. Disabled

Configure Pending Alert Acknowledgment
 If an EAS alert is decoded during Manual forward mode, while active it causes the red front panel status light to flash until the alert is acknowledged. Alerts can be acknowledged from the [Decoder->Incoming/Decoded Alerts page](#) or with the front panel button.

Alert audio, if any, will play on the front panel speaker when the front panel button is pressed to acknowledge an unforwarded decoded alert. *This action will just acknowledge the alert, it will NOT forward the alert. Uncheck to disable.*

Configure Duplicate Alert Handling for Decoder Auto-Forwarding
 If an incoming EAS alert is determined to be an *exact* duplicate of a previously decoded, it is completely discarded and a message is logged in the operation log. Alerts that are duplicates except for Station ID or ORG code are stored as a decoded alert and can be optionally auto-forwarded or held. Choose the setting below to control auto-forwarding for these alerts.

Duplicate Alert Auto-Forward Options

Configure EAS code filters for Decoder Auto-Forwarding

Allow All EAS Codes. Enabled. *During Auto-Forward mode (configure above), alerts with ANY EAS Code will auto-forward. Uncheck to allow selection of specific EAS Codes for controlling alert auto-forwarding.*

8. If you have purchased the DVS-168 or DVS-644 options see section 5.10 of the Manual for details.
9. If you've purchased the MPEG2 or MPEG4 options you can also refer to section 5.10 of the Manual for details. The supplied cables must also be installed as shown below.

MPEG2 Connections



MPEG4 Connections



10. Setting the Radio stations

- Setting up the frequencies for your LP1 and LP2 stations you will be monitoring for EAS Alerts.
 - Click on the Setup tab, the Audio button and the Radio Tuners tab.
 - Set the radio type, and frequency for each installed radio.
 - Click on the Accept Typed Frequency Change button after changing the frequency.
 - You can verify the audio quality of each source by clicking on the Listen On: “Front Panel Speaker” button.

The screenshot displays the 'Setup Audio' configuration page for the R189 Analog/Digital EAS Encoder/Decoder. The interface includes a navigation menu with 'Encoder', 'Decoder', 'Server', and 'Setup' tabs. The 'Setup' tab is active, showing options for 'Server', 'Encoder', 'Decoder', 'Audio', 'Video/CG', 'Net Alerts', 'Email', 'GPIO', 'Printer', 'Alert Storage', 'Network', 'Time', and 'Users'. The 'Audio' option is selected. The page title is 'Setup Audio' and it shows the user as 'User:Admin' with a server time of 'Mon Jan 21 16:37:39 2008 EST'. The 'Radio Tuners' tab is selected in the sub-menu.

Radio Configuration
NOTE: Typed frequency edits require clicking the **Accept Typed Frequency Change** button, while all other changes to radio settings are effective IMMEDIATELY!

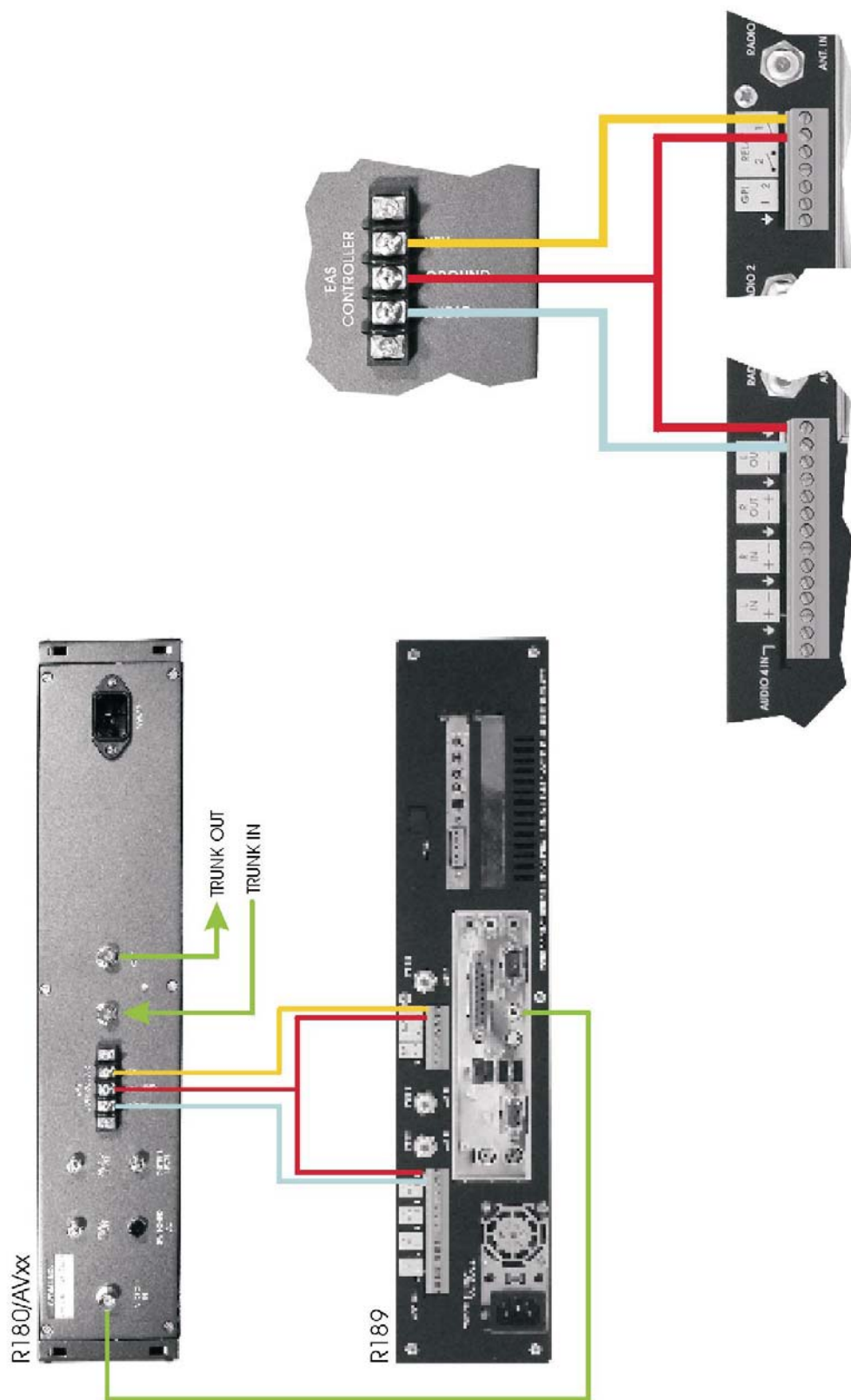
The DASDEC-1EN server optionally provides up to 3 internal radio tuners that can be used as decoder input. This page allows the tuning of each available radio. Each radio can be tuned to an AM, FM, or NOAA Weather radio station. [The first 2 radios are decoded by the Main Audio device. Make sure the Audio Input Source is set to internal. The third tuner, if available, is decoded by a required Aux 1 PCI soundcard device.](#)

1. FM AM NOAA Weather Radio
102.5 MHz FM (87.9 - 107.9) Level:VERY STRONG (87%)
Accept Typed Frequency Change Cancel Typed Frequency
[This radio provides audio for Decoder LP 1\(L1\)](#)
Listen on: **Front Panel Speaker** Main Audio Aux 1 Audio

2. FM AM NOAA Weather Radio
92.9 MHz FM (87.9 - 107.9) Level:MODERATE (60%)
Accept Typed Frequency Change Cancel Typed Frequency
[This radio provides audio for Decoder LP 2\(R1\)](#)
Listen on: **Front Panel Speaker** Main Audio Aux 1 Audio

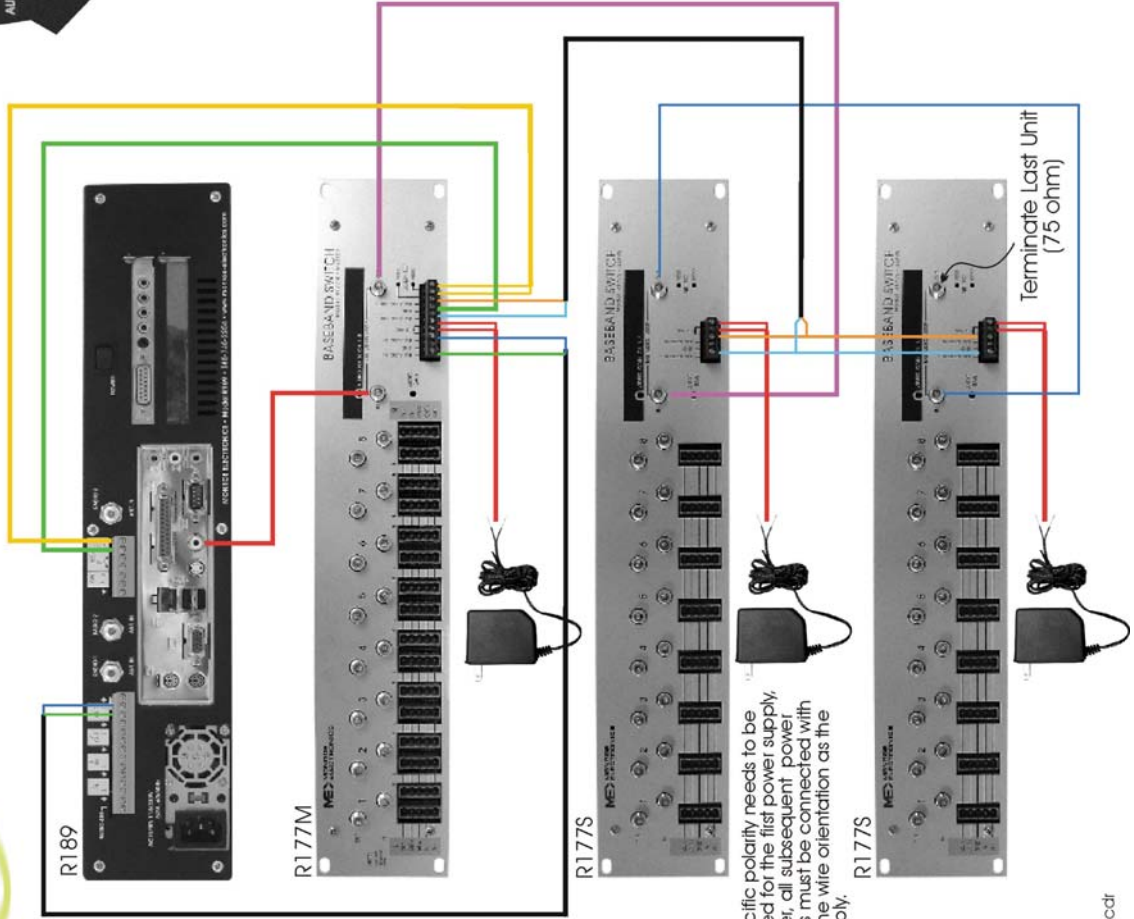
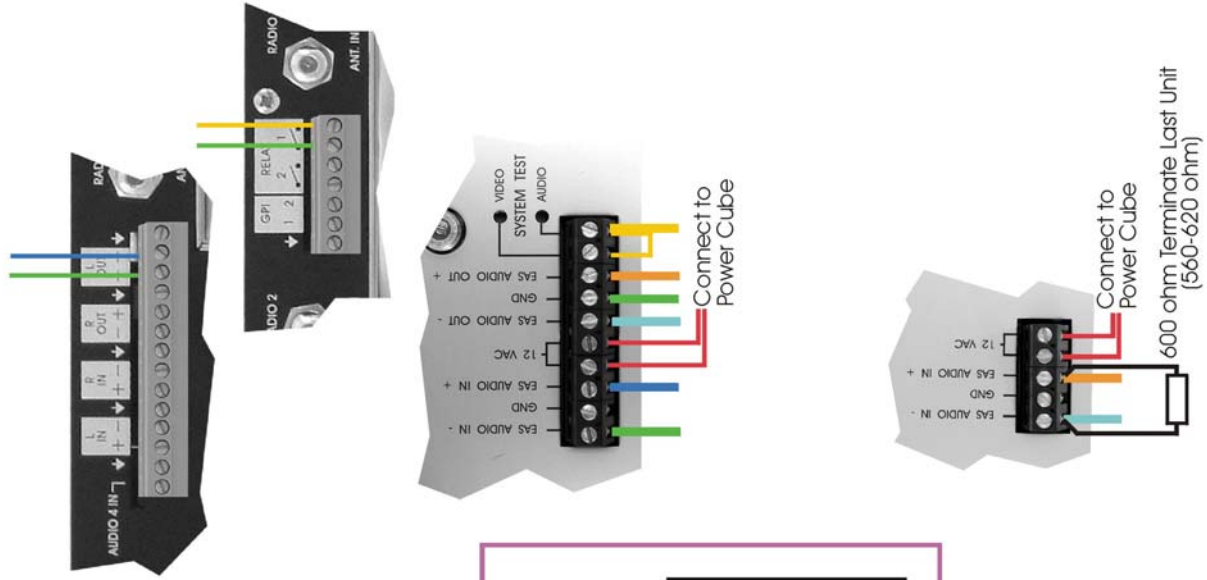
3. FM AM NOAA Weather Radio
103.3 MHz FM (87.9 - 107.9) Level:No Audio Detected (20%)
Accept Typed Frequency Change Cancel Typed Frequency
[This radio provides audio for Decoder Left 2\(L2\)](#)
Listen on: **Front Panel Speaker** Main Audio Aux 1 Audio

11. Connecting the cables





Baseband System

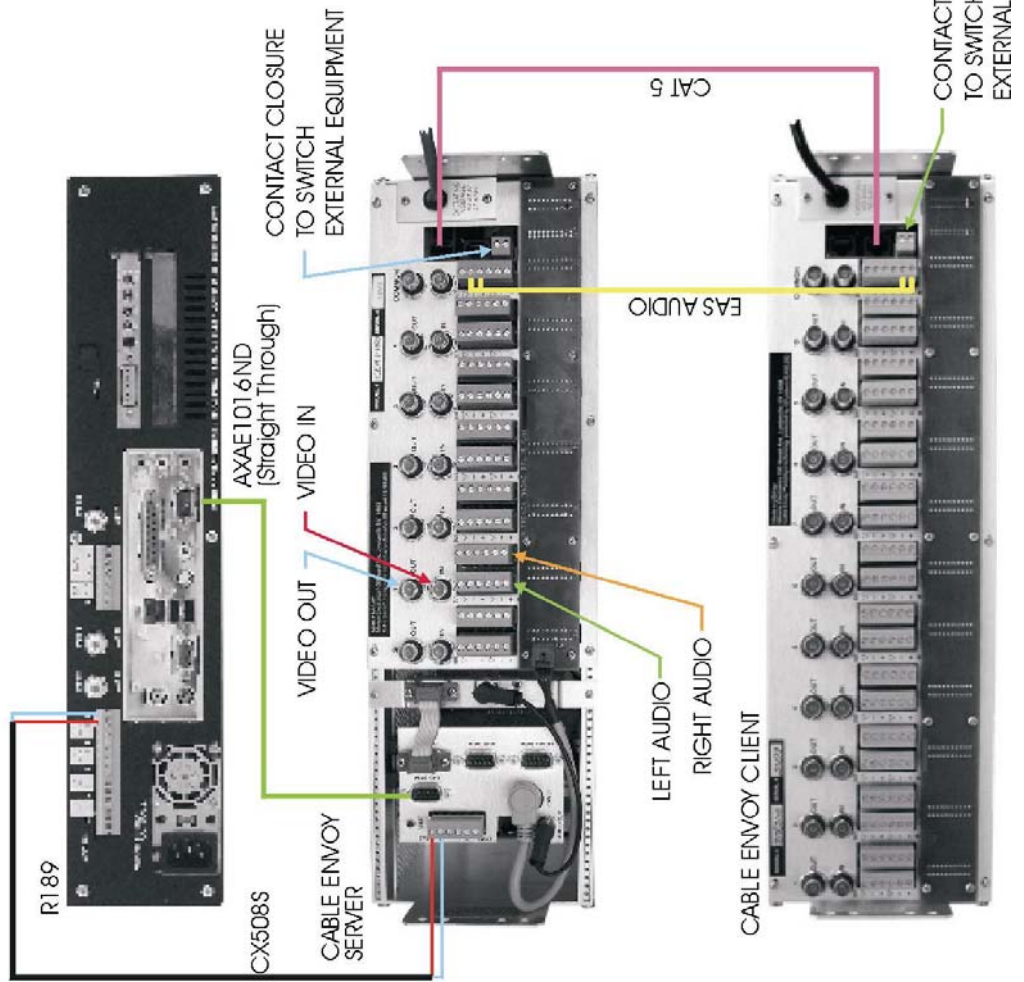


No specific polarity needs to be observed for the first power supply; however, all subsequent power supplies must be connected with the same wire orientation as the first supply.

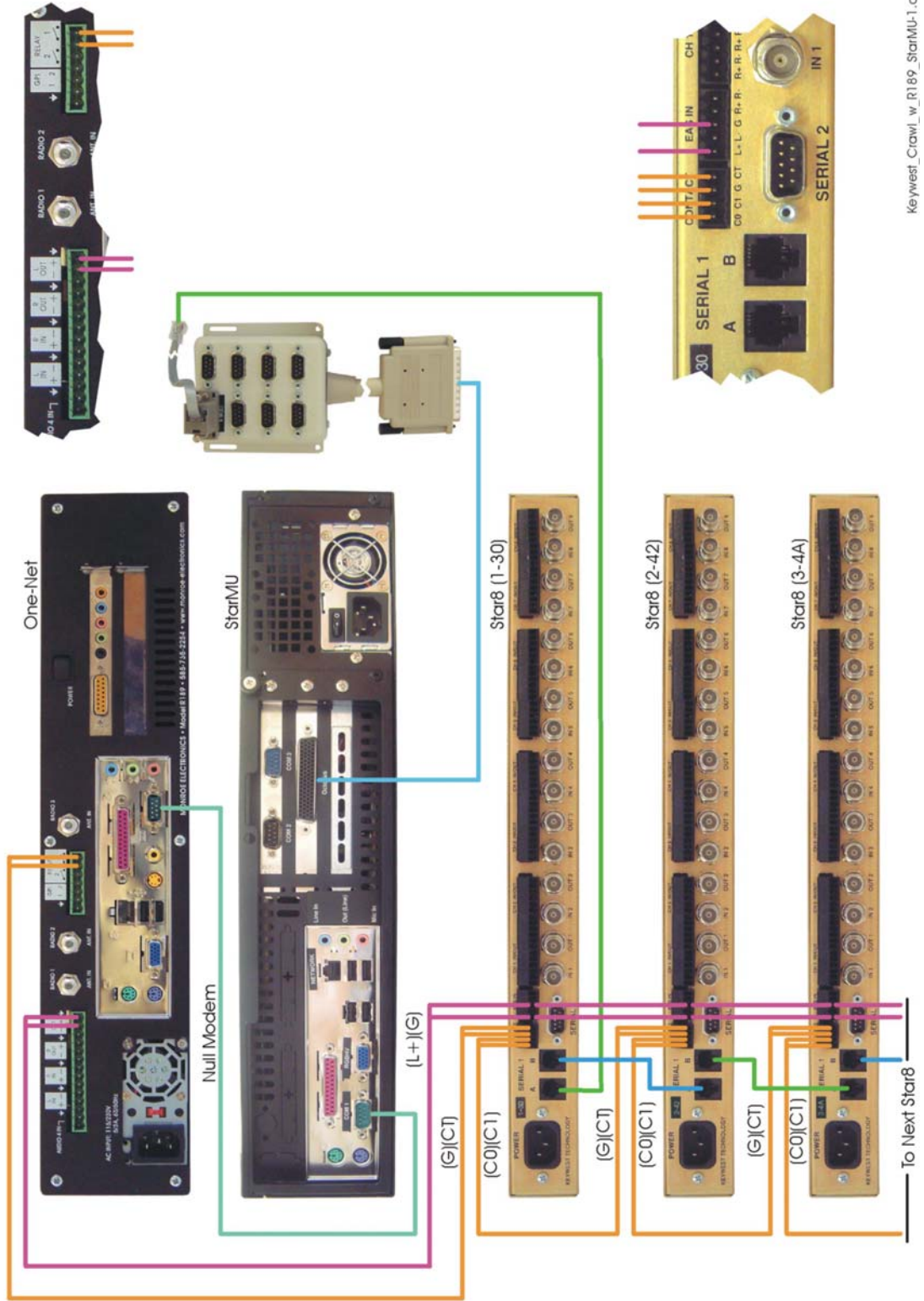
BB system.cdr



Crawl System

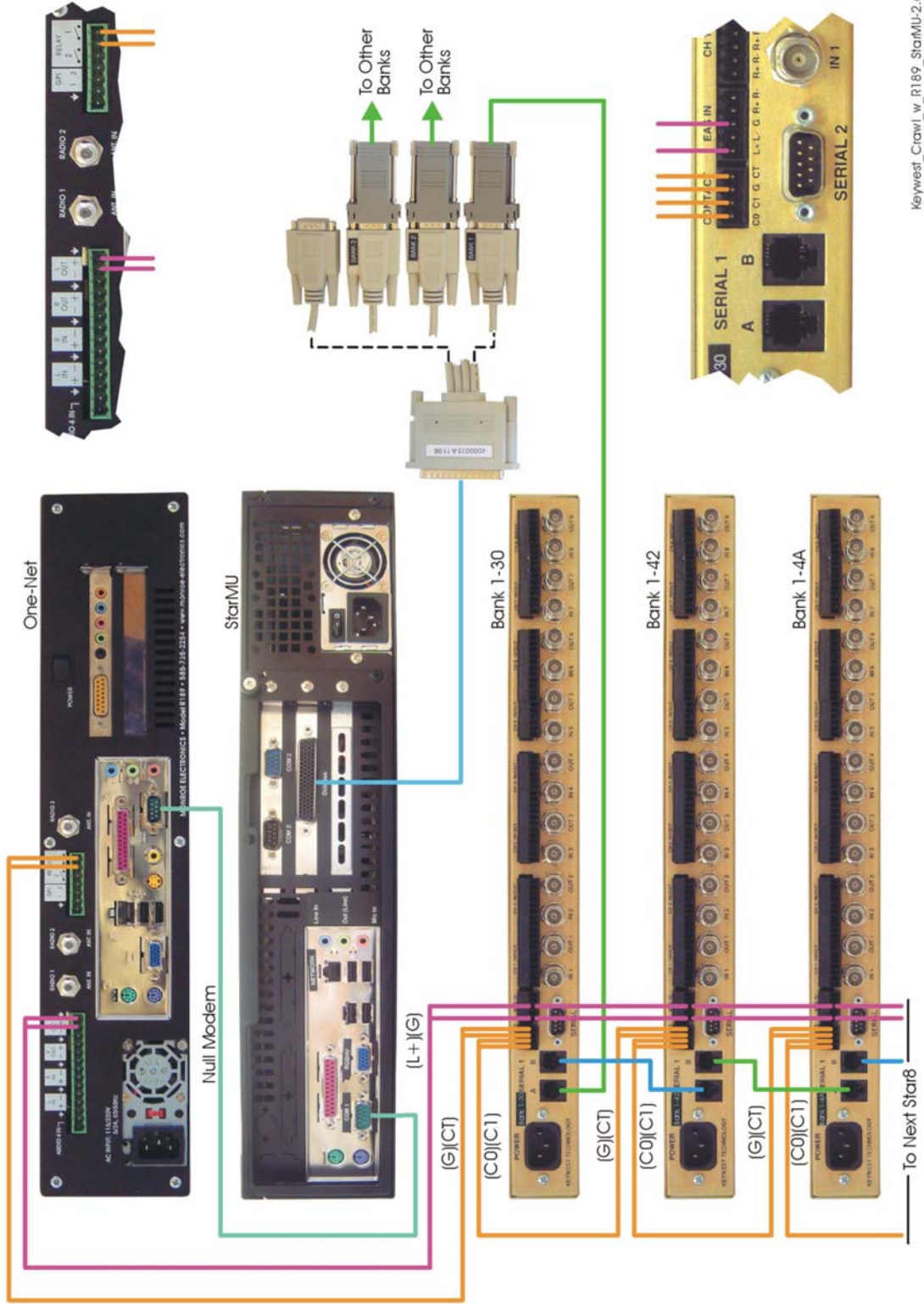


Keywest Crawl System w/ One-Net



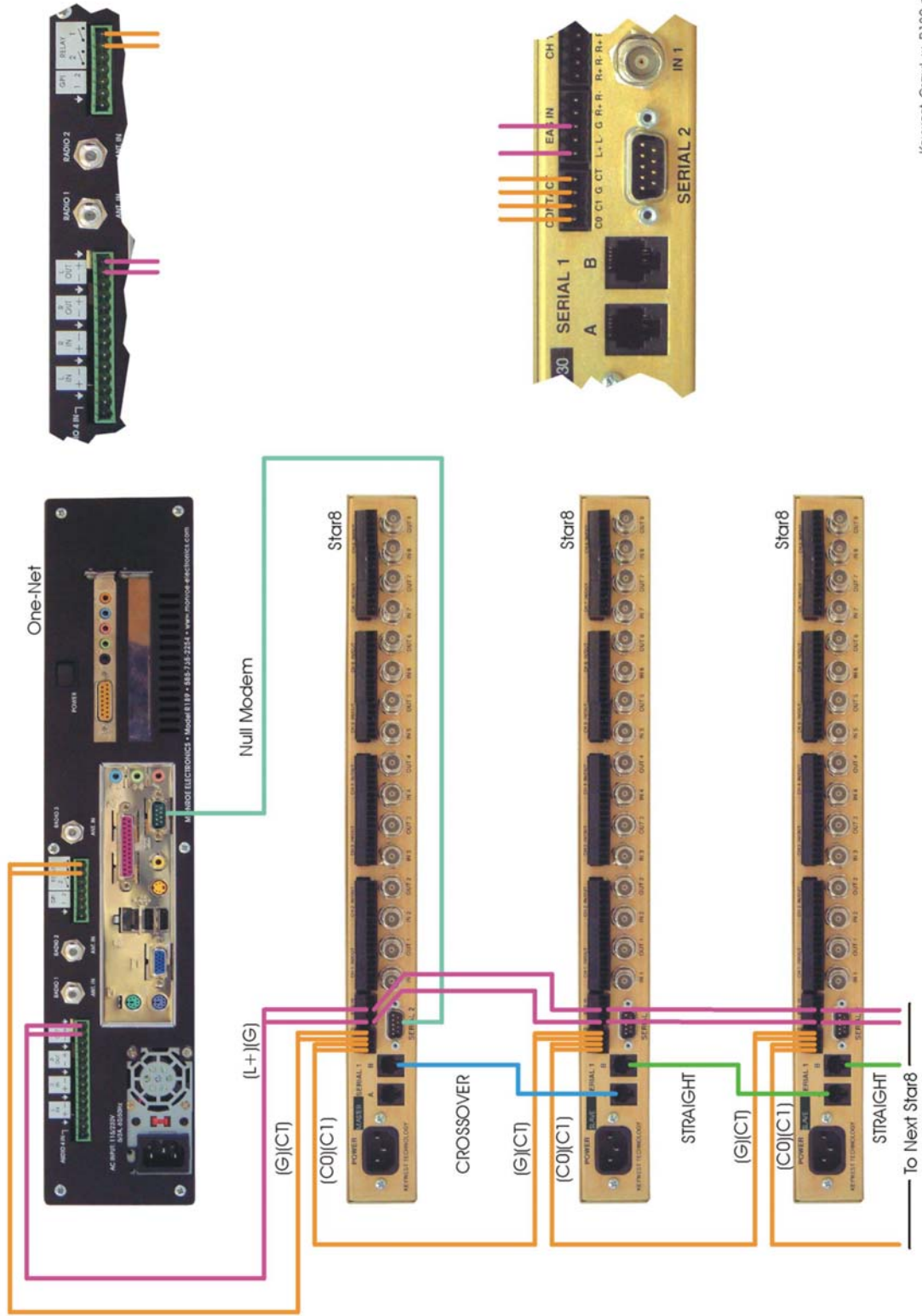


Keywest Crawl System w/ One-Net

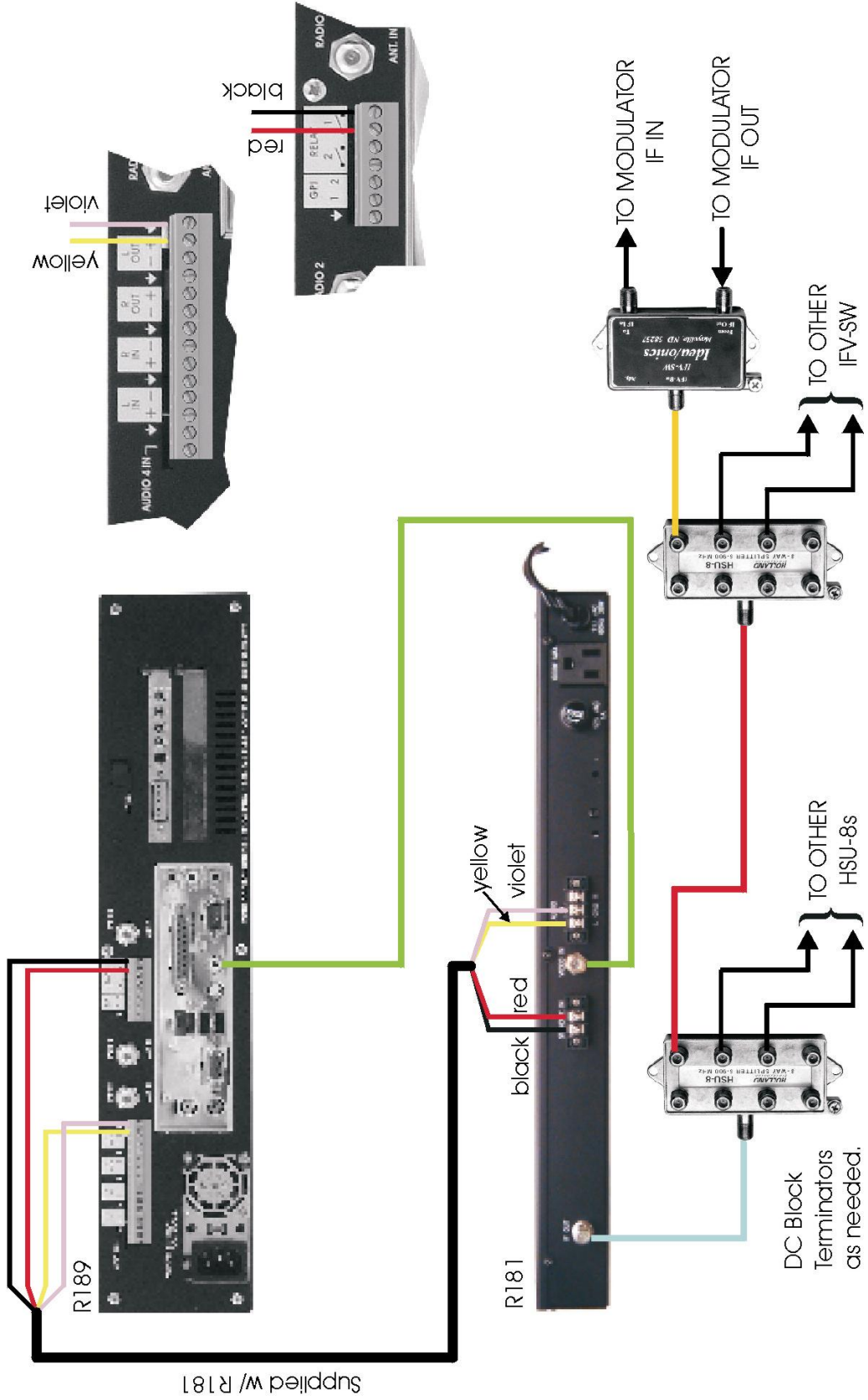




Keywest Crawl System w/ One-Net



IF System



Supplied w/ R181

Your basic setup for the One-Net is complete. If you used a Monitor, Keyboard and mouse directly connected to the One-Net to do your programming please do the following.

- Right click on the desktop and click on “Logout” to exit the desktop. The unit will return to a command prompt and is ready for operation.

If you programmed the One-Net from a PC either directly connected or through your LAN, your One-Net is ready for operation.