PNOmation II
User Guide & Upgrade Instructions
Driver V5.53j
Manual Revision: September 9, 2015
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Introduction to PNOmation II “PMII”

PLx “Pin-Light Extension” Box - Used to check the status of the system.

The box should be located under the piano near the edge for easy visibility. The lights will give you important information about the system. Use the button to Power ON, from “Standby”, and to Start and Stop Play. The four jacks “Extend” the PMII ports for easy access.

Large USB - Update PMII & External Music Access.
Small USB - Record to Computer, on pianos with optional record feature.
1/8” Stereo Jack - From Audio #1 - Aux In: External Music Access.
1/8” Stereo Jack - From Audio #4 - Headphones

Connection Mode - All systems are shipped in Stand Alone Mode.

Stand Alone - No connection to the Internet. Connect using 192.168.1.1

Wirelessly connect to QRSPNO####
During the trial periods, Sync Along songs play for only 90 seconds.
PM II delivers the IP address of 192.168.1.1
Use Only the Google Chrome, Safari or Android web browsers.
In Stand Alone mode the third PLx light is green.

Network - Connection to the Internet, the Preferred operating mode. Connect using qrspno.local

PMII is connected to the home network.
PM II is programmed to get an IP Address from the home router.
In Network mode the third PLx light is yellow.

Network Mode Advantages:
The Wi-Fi control device, iPad, can be connected to the home network and still control PMII.
The PMII Driver Version AND the Music Card are Automatically Updated over the network.
The Sync Along series music will play the entire song during the Customer Trial period.

Voice Prompts

Important information, via voice prompts, can be heard from the speaker.
Driver Version #, IP address, Update progress and remote control commands.
If the first PLx light is yellow, press the PLx button once so the first light is green.
To test, press any one of the numbered buttons on the QRS remote control.
The 6th light will flash Yellow when voice prompts are sent.

Trial Activation: 90 Day Access to the Music Library

Don’t forget to create an account to receive your 90 day access to the entire QRS music library.

Connect to the piano, not the QRS website, and go to System Setup / Trial Activation.
Press the green Customer Activation button, fill out the form and then press the Save button.

PMII MUST be in Network Mode for Full Access (playback longer than 90 seconds) to the Sync Along Library

Purchasing Music

We suggest that you create at least one Playlist during the 90 day trial period. Add songs and albums that you may want to purchase to the playlist. When the trial period expires, and you only see the Complimentary songs, the music that you saved will still be grouped in the playlist. Then, you can purchase the playlist instead of searching for the music again.

Check for PMII updates

For best performance please keep your PMII system updated to the latest Software Driver Version. Connect to your piano and go to Information / System for your current version.
Download the latest update from - http://qrsmusic.com/support_pmii.asp
### Wirelessly Connect to PMII and Power ON [Stand Alone Mode]

Check the status of the system by looking at the lights on the PLx box.

- If all of the lights are off, the power is probably disconnected
  - Plug the AC power cord into a wall outlet.

When the piano is plugged into the AC wall outlet….
- The lights will scan while the operating system loads and the music is indexed.

Stand By - #1 light is yellow.
- No power to move the keys and the speaker is off.

Low Voltage Power - #2 light must be green for the system to operate.
- If it's yellow the system has shut down and you must recycle the power.

Stand Alone Mode- #3 light is green.
- All units are shipped from the QRS factory in “Stand Alone” mode.
- If #3 light is yellow, and the #2 is green, the system is in Network Mode use a QRS remote to change to Stand-Alone.
  - Press the following buttons in sequence…
    - SHIFT    FUNC    9    9    0
  - The third light should be green.
  - Press SHIFT    INFO to confirm the 192.168.1.1 address.

### Connecting into PMII - Two Steps

Wirelessly connect your device to the piano’s Wi-Fi Adapter.

1. **Computer [Windows 7 example shown]**
   - Click on your Wireless Network Connection Icon.
   - Select “QRSPNO ####”

2. **Android**
   - Go to Settings / Wireless Networks / Wi-Fi
   - Connect to “QRSPNO ####”

For better performance, we suggest that you switch to Network Mode.

Enter 192.168.1.1 in the address box of your browser window and then, refresh the browser.

1. **iPod Touch / iPhone / iPad**
   - Safari

2. **Computer**
   - Use Google Chrome

Press the “Power ON” button.
Notice the song in the list below with an Asterisk * in the second line of the title. This is a sample of a Complimentary Song that you receive with the purchase of the system. [318 songs] Go to the Trial Activation section of the manual to learn how to release the entire QRS Library for 90 days.
Use the “Radio” mode to play songs from any Genre.
Select Play Piano / Radio.

*For full functionality of the radio feature, a music subscription or trial access is required. For more information, go to QRSMusic.com or call 800-247-6557 and ask about PMII Music Subscriptions.

Select the music type; Solo, Accompaniment or both.
Select a Genre.
Shuffle Mode will turn ON.
The first song will begin to play.

Notice the “Next Song” button.
Press the Speaker Icon to open the “Playback Settings” window.
Press “Playback Options” to change Shuffle or Repeat Modes.
User Guide

System Information

Go to Information / System to view the current “Software Driver” version.

Updating the Software Driver “Operating System” [OS Update]

Check the QRS website for the latest updates:
http://www.qrsmusic.com/support_pmii.asp
There are two update “Patches” on the website: System, Media and Database

Go to the OS Update page to check your current patches and to view the update progress.

If newer Patches are available, copy them both to a USB memory stick.
Don’t unzip or rename the files!

Plug the USB memory stick in the USB port on the PLx box.
The update procedure is automatic;

Once the system is running Software Driver Version...
V5.00 or higher...

AND

PMII is in Network Mode...
The following are updated automatically in the early AM:
Software “Driver Version” Updates
New Music is added to your library
Purchased Music is Released

Go to “Shutdown Options” and select “Reboot”, wait for system to reboot and reconnect.
Go back to the “OS Update” page and verify that the system updated to the latest patches.
Remove the USB memory stick.
### Network Settings

Please update PMII to the latest Software Driver Version before switching modes.

*See the “Updating the Software Driver “Operating System” [OS Update]” section of this manual for details.*

PMII systems are shipped from the factory in “Stand-Alone” mode with the IP address of 192.168.1.1. We suggest connecting PMII to your home network. This will allow you to control PMII from any device on your network, make purchasing music easier and your system will receive automatic software and music updates. You can either connect a cable from PMII to your network or reprogram the pianos Wi-Fi device to communicate to your home network. *See the Wi-Fi Configuration section for details.*

To use PMII with your home router with a connection to the Internet:

1. Set-up PMII in Network mode by sliding the “DHCP Server Enabled (Standalone)” button to the left. *You can also use a QRS remote to make this change. See the Wi-Fi Configuration section.*

2. Keep the DHCP Client (on) button to the right.

3. Press the “Apply Changes” button and “Yes” to confirm. The 3rd PLx light should turn yellow. *You will lose your connection to PMII.*

4. Connect an Ethernet cable from PMII to your home router “network” or... reset the piano’s Wi-Fi device to communicate with your home router. *See the Wi-Fi Configuration section for details.*

5. To connect to the PMII player system; open your Safari, Google Chrome or Android web browser and enter the following in the address bar: **qrspno.local**

If you can’t connect to the PMII player system through your home router, switch back to Stand-Alone mode. *See the “Wi-Fi Configuration section of this manual.”*
User Guide

Trial Activation / My Account

With the purchase of a QRS PNOmation II system or one of the QRS PMII Upgrade kits you will receive full access to the entire QRS Music Library for 90 days. The trial period begins after you complete the Trial Activation Form. PMII MUST be in Network Mode for full access to the Sync Along Library.

When the 90 day trial period expires you will have full access to the 318 complimentary songs.

*See the Complimentary Song list in the back of this manual.*

*To purchase additional music after the trial period see the Purchasing Music section of this manual.*

Go to System Setup / Trial Activation and press the “Customer Activation” button.

Complete the Trial Activation form, then click “Save & Yes” to activate your 90 access to the entire QRS Music Library.

We suggest that you create at least one Playlist during the 90 day trial period. Add songs and albums that you may want to purchase to the playlist. When the trial period has expired, and you only see the Complimentary songs, the music that you saved will still be grouped in the playlist. Then, you can purchase the playlist instead of searching for the music again.

Select the QRS/PWR Power Options button to view the number of trial days remaining.
Playlists

Create a Playlist:

To create a playlist just touch the gray circle next to the song title. The circle turns green.

You may continue to select songs for the playlist or...

1. Press “Quick Save” to save your current selections with the default name (Playlist_#.Pls).
2. Press “Save As...” to save your playlist with the name you choose.
3. Press “Save To...” to save the song to an existing playlist.
4. Press the “Clear” button, before saving, to uncheck all of your current selections.

---

Play songs from a Playlist:

Press “Playlist” in the left or at the bottom of the page.

Open a playlist by touching the playlist name and make your song selection from the list.

---

To Remove a song from the playlist.

Press the green circle next to the song and Save.

---

Add songs to an existing Playlist:

Open a playlist and select Add More Music.

Make your music selection and press the “Quick Save” button.

---

To Purchase Music from the playlist

See “Purchasing and Releasing Music”
**User Guide**

**Purchasing and Releasing Music…**

**STOP PNOmation before attempting to purchase or releasing music.**

**Selecting Music to Purchase From The Sample Library**

Go to the Sample Library section to purchase more music.

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<th>QRS</th>
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The plus signs next to the song titles indicate that you are in the sample library section.

Some selections are “ALBUM ONLY”

**Selecting Individual Songs from the Entire List**

Selecting “Songs” will allow you to select from the entire QRS library. Search or Scroll to find your song. Pressing the “+” next to a Song title will add that song to the cart. Select as many songs as you wish. See below to add an entire album or go to the cart if you are finished.

Press the “-” sign to remove that song from the Cart or press the “Remove All” button to remove ALL selected songs from the Cart.

**Selecting an Entire Album or Songs from Specific Albums**

When selecting Albums, Artists or Genres you must “drill-down” into an album that you wish to purchase. First, go to Albums, Artists or Genres and find your album. Second, select the album to view the songs on that album.

You can select individual songs from that album, as above or...

Press the “+” next to the image of Album at the upper right corner of the page.

Some selections are “ALBUM ONLY”

Instead of going to the Cart, you can just press the “Purchase Music” button to email your order. The steps are the same as the instructions that follow on the next page.

When you have finished with your selections, go to the Cart.
Ordering Music From the Cart

You must establish a QRS account with a valid Email address and Credit Card number for order processing.

Go to the cart and check your order.

Remove a Song or Album from the Cart

Select “Remove All” to delete the entire Cart or press the “Remove” button next to the individual Song or Album.

Place Order [Directly from PMII or By Calling QRS Music]

Press the Purchase Music from the Cart to open the Purchase Music screen.

If you’re controlling PMII with a device that has an Email account then Press the “Place Order” button. This will place the order in your Outbox.

If PMII is in Network Mode the Email will be sent to QRS immediately.

If PMII is in Stand Alone Mode the Email will be sent to QRS the next time your device is connected to your home network and the Internet.

To order by phone: Call 800-247-6557 with these Numbers:

Serial Number: PMII followed by 8-10 digits.

The Catalog-Track Numbers

DO NOT change your Cart after placing the order!

Releasing Purchased Music from the Cart

You will receive a “Release Key” number via Email once your order is processed at QRS. Usually within 48 hours.

Go to Play Piano / Sample Library / Cart

Press the “Enter Release Key” button.

Touch the “Enter Key” box to open your keypad.

Enter the 3 digit code you received from QRS.

Press the “Release Music” button.

The music will be added to your Play Piano lists.

Purchasing Music From a Playlist

You can purchase and release Playlists.

Follow the instructions use to purchase and release music from the Cart.
## Purchasing and Releasing Music

For smaller “phone” orders, ALBUMS ONLY, called in to QRS it is easier to use the Unlock Content page to release the music. After QRS processes your order you will receive an email or phone call with the “Release Key” needed to unlock the music from your order.

### Unlock Content

Unlocks Albums; QRS Music Packages and Special Features.

Go To: Play Piano / Unlock Content…

Enter the Catalog # “Enter Number Here”

Press the “Enter Code” button…

Enter the Release Key “Enter Release Key”

Press the “Release Music” Button.

Released music will be added to your song list.

### Buy Music

Select “Buy Music” for shortcuts to activate, purchase or unlock music.
Go to “Shutdown Options”

“Standby” - Shuts off power to the key solenoids but keeps the processor running. When you finished for the day go to Standby Mode.

You can also select the “QRS/PWR icon

Notice Version Number & Remaining Trial Days

“Reboot” - Restarts the system in case the unit does not respond to commands. Sometimes a reboot is required after a Music Release or System Update.

“Shutdown” - Shuts OFF the system for a move or when the unit won’t be used for a while. To restart after a shutdown the piano must be disconnected and then reconnected to AC power.
Record a Song
The QRS PNOscan other record system must be installed on the piano.

Select the Record option.
Press the Red Record button.

Begin playing the piano when the “Recording” box appears.
Press the “Stop” button when you are finished recording.

A new song will appear in the Record window.
Press the newly created file to play.

Record Settings

Master volume sets to 50 (75%) when the Record button is pressed.

Delete Recording
Opens up the recording in certain music software programs if PMII is connected to a computer via the USB Client port.

With the “Event Trigger” ON, recording begins when the first key is pressed.

Turn OFF to keep PNOscan key information from exiting the 5-Pin MIDI OUT socket. Eliminates “Looping”.

Record Source - Select which port you are recording from:
- PNOscan: The QRS PNOscan sensor strip under the piano keys.
- MIDI Port: A MIDI device connected to the 5-Pin MIDI IN port.
- USB MIDI: A computer w/software connected to the USB Client port.

Autosave ON: Auto-saves with date_# title.

Autosave OFF: After recording. Press “Save to Internal” to save song as “My Recording”. Change to any name. Will overwrite current recording with same name.
Practice

The QRS PNOscan or other record system must be installed on the piano. The QRS “Stop Rail” must be installed for the Silent Practice to be effective. Headphones are required to “Practice in Silence”.

*The Stop Rail stops the piano hammers from striking the strings.*

Pull Lever to Engage the QRS Stop Rail to silence the acoustic piano.

Plug Headphones to the PLx box.

Select the “Practice” and then “Silent Practice”. *Silent Practice Mutes the Speakers.*

Select the Piano sound, or any other “Synth” sound in the list.

The sound that you chose will be heard through the headphones as you play the piano. Adjust the “Synth Volume” if necessary.

Select “Perform” to hear the “Synth” sound through the piano speaker instead of the headphones.
Setup

1. Select “Record” from the PMII Menu
2. Select the “Floppy Disc” Icon
3. Select “Create or View PNOcloud” account link
4. Select “Sign Up”
5. Fill out the form...

...or just go to www.pnocloud.com directly
6. Select “OK” at the confirmation window
7. Log In to PNOcloud to play the file from PC

Record Defaults

- Auto Save: The recorded song is named automatically when saved.
- Default Record Artist: The user names the song when saved.
- Hide Record Window: Hides the Record option for PMII systems without the record hardware.
- Source/PNOscan: Select to record, to PMII, from the QRS PNOscan II record strip.
- Source/MIDI Port(5-Pin): Select to record, to PMII, from a MIDI device connected to the 5-Pin MIDI IN port.
- Source/USB MIDI: Select to record, to PMII, from a computer connected to the USB Client port.
- Tempo: Change the tempo of the recorded song.
- Transpose: Transpose the “Key Signature” of a recorded song.
- Routing/PNOscan to 5-Pin MIDI: The MIDI data from the QRS PNOscan II record strip is also sent to the 5-Pin MIDI Out port.
- Routing/PNOscan to USB MIDI: The MIDI data from the QRS PNOscan II record strip is also sent to the USB Client port.
- Record Tempo & Lead-in: Record tempo (Beats Per Minute)
- Measures to Count In (0 = no count in): Empty measures counted before recording begins when Event Trigger is Off.
- Event Trigger: Recording does not begin until a key is pressed.
- Metronome Enable: An audible Click-Track is heard through the speakers.
- Click Volume: Sets the volume of the “Click-Track.”

Sing-Along

Select Play Piano / Genre / Sing-Along to sing along with the music.
External Inputs

Press External Input to play from one of the four external source options.

**AUX Line In:** Connect Qsync, your MP3 or CD player to the Audio jack #1.

**QRS Controller:** Connect your Ancho or Petine to the “QRS Controller” socket on the PMII chassis.

**MIDI In 5-Pin:** Connect your Record System, Qsync or other MIDI device to the MIDI In port of PMII.

**MIDI In USB Client:** Connect your Computer with MIDI software to the USB Client port of PMII.
Clock

Setting the Clock

PLx Light Intensity

LED Intensity: Controls the intensity of the lights in the Pin-Light Extension (PLx) box.

Language

Select a language for the Menu and Voice Prompts:
Menu choices: English, Simplified Chinese, Dutch or French
Voice Prompt Choices: English, Simplified Chinese, Dutch
ON/OFF Scheduling

Schedule the piano to automatically play from a selected Playlist any day and time of the week.

Go to ON/OFF Scheduling and select “Add New”

Select:
- Start and End Times
- Day of Week
- Playlist or Songs

Select a Playlist or Songs

Name the Scheduled Event

Activate the Scheduled Event

Save Changes & Exit
# User Guide

## Pin-Light Extension [PLx] Light Patterns

<table>
<thead>
<tr>
<th>Power</th>
<th>Green</th>
<th>Power to Solenoids</th>
<th>Flashing: MIDI Data Detected - Piano should be playing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow</td>
<td>Solid: Standby: PMII=ON, “Hi” Power=OFF waiting for ON command</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Red</td>
<td>Solid: Key or Pedal Solenoid Over-Current Shut Down</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## System

<table>
<thead>
<tr>
<th>Power to Electronics</th>
<th>Green</th>
<th>Solid: Power Supply’s “Lo” Power LED is ON, PLx initialized.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow</td>
<td>Solid: Standby: PMII=ON, “Hi” Power=OFF waiting for ON command</td>
<td></td>
</tr>
<tr>
<td>Red</td>
<td>Solid: Key or Pedal Solenoid Over-Current Shut Down</td>
<td></td>
</tr>
</tbody>
</table>

## Network

<table>
<thead>
<tr>
<th>Power to Electronics</th>
<th>Green</th>
<th>Solid: Stand-Alone Mode</th>
<th>PMII delivers 192.168.1.1 IP Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow</td>
<td>Solid: Network Mode</td>
<td>PMII gets IP Address from Home Router</td>
<td></td>
</tr>
<tr>
<td>Red</td>
<td>Flashing - PMII is not getting an IP Address or not communicating with Wi-Fi</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Mode

<table>
<thead>
<tr>
<th>Music Source</th>
<th>Green</th>
<th>Solid: SD Card or USB Drive</th>
<th>Active after song has been selected</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow</td>
<td>1 Blink: No SD Card or USB Memory Drive Detected</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 Blinks: Record Source</td>
<td>Active after song has been selected</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 Blinks: Test Files</td>
<td>Active after song has been selected</td>
<td></td>
</tr>
<tr>
<td>Yellow</td>
<td>1 Blink: External: Auxiliary Line In</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>3 Blinks: External: MIDI IN 5-Pin</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2 Blinks: External: MIDI IN USB Client</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## MIDI

<table>
<thead>
<tr>
<th>MIDI Data to Solenoids</th>
<th>Green</th>
<th>Keyscan/Primary 10-pin connection to PNOscan II (Record)</th>
<th>MIDI traffic from record system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td>No Keyscan/Primary 10-pin connection to PNOscan II (Record)</td>
<td>5-pin MIDI traffic</td>
<td></td>
</tr>
</tbody>
</table>

## AMI

<table>
<thead>
<tr>
<th>Power to Electronics</th>
<th>Green</th>
<th>Solid: Decoding MIDI Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yellow</td>
<td>Solid: No MIDI Data detected</td>
<td></td>
</tr>
</tbody>
</table>

## Pin-Light Extension [PLx] Button Functions

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Play / Stop</td>
<td>When the 1st light is green…</td>
</tr>
<tr>
<td></td>
<td>…press to play the selected song.</td>
</tr>
<tr>
<td></td>
<td>…press again to stop playback.</td>
</tr>
<tr>
<td>Standby</td>
<td>Press and Hold for about 8 seconds…</td>
</tr>
<tr>
<td></td>
<td>…yellow lights will can left…</td>
</tr>
<tr>
<td></td>
<td>…release when just the 1st light is yellow.</td>
</tr>
<tr>
<td>Reboot</td>
<td>Press and Hold for about 15 seconds…</td>
</tr>
<tr>
<td></td>
<td>…yellow lights will scan left then right</td>
</tr>
<tr>
<td></td>
<td>…release when the 1st three lights are yellow.</td>
</tr>
</tbody>
</table>
For most of you who use a wireless device, such as the iPad, to control PNOmation II the QRS Remote Control gets little use. The remote can be used to play the piano but, without a display it’s impossible to pick a specific song from the extensive QRS Music Library. Although it could be used for systems without the built-in library of music. You could purchase individual albums on a USB memory drive and plug it into the USB port on the front of the piano. The system would announce “USB…” and you could press the Play button on the remote to play the album.

For systems in “Network Mode,” there ARE a few reasons to have the remote:

Press the buttons in sequence, do not hold.

<table>
<thead>
<tr>
<th>Function</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>Announce IP Address</td>
<td>SHIFT / 3</td>
</tr>
<tr>
<td>Set to Stand Alone Mode</td>
<td>SHIFT / FUNC / 9 / 0</td>
</tr>
<tr>
<td>Set to Network Mode</td>
<td>SHIFT / FUNC / 9 / 1</td>
</tr>
</tbody>
</table>

SHIFT

Press “SHIFT” and a button below.

<table>
<thead>
<tr>
<th>Button</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADIO</td>
<td>Future Option</td>
</tr>
<tr>
<td>TEST</td>
<td>Future Option</td>
</tr>
<tr>
<td>D OFF</td>
<td>Future Option</td>
</tr>
<tr>
<td>SPDIF</td>
<td>Future Option</td>
</tr>
<tr>
<td>AUX</td>
<td>Play Music from External Source at Audio Port #1</td>
</tr>
<tr>
<td>ALIGN</td>
<td>Key Calibration</td>
</tr>
<tr>
<td>SET</td>
<td>Future Option</td>
</tr>
<tr>
<td>A</td>
<td>Future Option</td>
</tr>
<tr>
<td>DYN</td>
<td>Future Option</td>
</tr>
<tr>
<td>MUTE AUD</td>
<td>Mute Audio</td>
</tr>
<tr>
<td>B</td>
<td>Future Option</td>
</tr>
<tr>
<td>MUTE PNO</td>
<td>Mute Piano</td>
</tr>
<tr>
<td>ADD</td>
<td>Future Option</td>
</tr>
<tr>
<td>COPY</td>
<td>Future Option</td>
</tr>
<tr>
<td>INFO</td>
<td>Current IP Address</td>
</tr>
<tr>
<td>STAT</td>
<td>Future Option</td>
</tr>
<tr>
<td>PSET</td>
<td>Future Option</td>
</tr>
<tr>
<td>RESET</td>
<td>Future Option</td>
</tr>
<tr>
<td>FUNC</td>
<td>Use with SHIFT &amp; Number Buttons for Special Features</td>
</tr>
<tr>
<td>PGM</td>
<td>Future Option</td>
</tr>
<tr>
<td>RAND</td>
<td>Future Option</td>
</tr>
<tr>
<td>VOICE</td>
<td>Future Option</td>
</tr>
<tr>
<td>PRAC</td>
<td>Future Option</td>
</tr>
</tbody>
</table>

Old-Style Remote / Press the buttons in sequence, do not hold.

<table>
<thead>
<tr>
<th>Function</th>
<th>Command</th>
</tr>
</thead>
<tbody>
<tr>
<td>Announces IP Address</td>
<td>F1/Source / 9 / 9 / 2</td>
</tr>
<tr>
<td>Set to Stand Alone Mode</td>
<td>F1/Source / 9 / 9 / 0</td>
</tr>
<tr>
<td>Set to Network Mode</td>
<td>F1/Source / 9 / 9 / 1</td>
</tr>
</tbody>
</table>
# PMII Upgrade Kit Installation Instructions

## PMII QRS Upgrade Kit

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>80108</td>
<td>PNOmation II Processor Assembly</td>
<td>1</td>
</tr>
<tr>
<td>80108A</td>
<td>PMII Processor Only</td>
<td>1</td>
</tr>
<tr>
<td>990026</td>
<td>Cable: Speaker [1/8&quot; stereo plug to two RCA]</td>
<td>1</td>
</tr>
<tr>
<td>70213</td>
<td>Cable [6&quot; - RCA M Plug - 2 RCA F Jacks]</td>
<td>1</td>
</tr>
<tr>
<td>80109</td>
<td>Mounting brackets [New - Metal]</td>
<td>2</td>
</tr>
<tr>
<td>37322</td>
<td>Screws: Mounting</td>
<td>4</td>
</tr>
<tr>
<td>79226</td>
<td>SD Card with the QRS Music Library</td>
<td>1</td>
</tr>
</tbody>
</table>

## PLx - Pin-Light Port Extender Package

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>80124</td>
<td>PLx Unit: Lights, IR Sensor; Stereo &amp; USB Ports; Microphone; Button</td>
<td>1</td>
</tr>
<tr>
<td>8012406</td>
<td>PLx Unit: Lights, IR Sensor; Stereo &amp; USB Ports; Microphone; Button</td>
<td>1</td>
</tr>
<tr>
<td>50126</td>
<td>Cable: USB A Male to USB 5-Pin Mini B [1 for computer connection to PMII]</td>
<td>2</td>
</tr>
<tr>
<td>50128</td>
<td>Cable: Audio [1/8&quot; Male to 1/8&quot; Male] 6.5'</td>
<td>2</td>
</tr>
<tr>
<td>50141</td>
<td>Cable: USB Male A to USB Male B</td>
<td>1</td>
</tr>
<tr>
<td>790185B</td>
<td>Cable: 72&quot; Six-Pin Ribbon [Black]</td>
<td>1</td>
</tr>
<tr>
<td>50145</td>
<td>Adapter [1/8&quot;]</td>
<td>2</td>
</tr>
<tr>
<td>35271</td>
<td>Screw</td>
<td>4</td>
</tr>
</tbody>
</table>

## Portable Wireless Assembly Net gear EX6100 [AC750] Range Extender

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>79211</td>
<td>Portable Wireless Assembly Net gear EX6100 [AC750] Range Extender</td>
<td>1</td>
</tr>
<tr>
<td>35135</td>
<td>Cable: RJ45 Ethernet</td>
<td>1</td>
</tr>
<tr>
<td>70204</td>
<td>Cable Ties</td>
<td>5</td>
</tr>
<tr>
<td>30403</td>
<td>Screw Driver [Right-Angled Phillips #2 to remove old processor]</td>
<td>1</td>
</tr>
<tr>
<td>70208</td>
<td>Clamp [Wave Shaped Ribbon]</td>
<td>3</td>
</tr>
<tr>
<td>70585</td>
<td>Screws for Clamp [6x1/2&quot;]</td>
<td>3</td>
</tr>
<tr>
<td>30409</td>
<td>Screw Driver [Snub-Nosed Phillips]</td>
<td>1</td>
</tr>
<tr>
<td>70152</td>
<td>Cable: 10’ MIDI</td>
<td>1</td>
</tr>
<tr>
<td>7921706</td>
<td>Cable: 10-Pin [Use with 10-Pin Coupler to extend PNOscan cable to PMII]</td>
<td>1</td>
</tr>
<tr>
<td>8152503</td>
<td>Coupler: 10-Pin</td>
<td>1</td>
</tr>
<tr>
<td>81525i</td>
<td>PMII Upgrade Instructions</td>
<td>1</td>
</tr>
</tbody>
</table>

## PMII MIDI Upgrade Kit

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>81525</td>
<td>PMII Upgrade Kit - See above</td>
<td>1</td>
</tr>
<tr>
<td>8152905</td>
<td>PMII Upgrade Kit to PMII MIDI Upgrade Kit Conversion</td>
<td>1</td>
</tr>
<tr>
<td>70166</td>
<td>Adapter: MIDI Barrel Connector</td>
<td>2</td>
</tr>
<tr>
<td>990026</td>
<td>Cable: Speaker [1/8&quot; stereo plug to two RCA]</td>
<td>1</td>
</tr>
<tr>
<td>8152511</td>
<td>Power Adapter [Power supply for PMII after 0813] [8152501 for older PMII]</td>
<td>1</td>
</tr>
<tr>
<td>2007116</td>
<td>Cable: 6’ MIDI</td>
<td>2</td>
</tr>
<tr>
<td>73398</td>
<td>PMII Big Button Remote</td>
<td>1</td>
</tr>
<tr>
<td>70388</td>
<td>AAA Batteries</td>
<td>4</td>
</tr>
</tbody>
</table>
PMII Upgrade Kit Installation Instructions

Connecting Record Systems to PMII

PNOmation II can record, internally, from the following ports:
KEYSCAN PRIMARY [Only from the QRS PNOscan II System] Set PMII Record Source to PNOscan.
5-Pin MIDI IN [Any device that send MIDI] Set PMII Record Source to MIDI Port (5-Pin).
USB Client [Computer sending MIDI via a USB port] Set Record Source to USB MIDI.

From Computer

PNOscan II is built into PMII and you have two options:
1] Unplug the 10-Pin Primary Port cable from PNOscan II and reconnect it to the KEYSCAN PRIMARY port on PMII. Discard the PNOscan box shown below.
2] Connect a MIDI cable from the MIDI OUT of PNOscan II to the MIDI IN of PMII and keep the blue PNOscan box.

Connect the MIDI OUT from the Record System to the MIDI IN on PMII.
Select the MIDI Port (5-Pin) Record Source on PMII.
Test before mounting and always connect power to PMII last! The PNOmation II processor can be used as a MIDI file player to control other player piano systems. Except for the power adapter and MIDI cable the 81529 PMII MIDI kit connects the same as the 81525 PMII Upgrade for QRS player systems.

1) Follow the numbered steps below and connect the components.
2) If installed, connect the record system to PMII. *See the next page for details.*
3) See the “Wirelessly Connect…” Section of this guide and connect to the system.
4) Set Curves to “Linear” (pg. 21) & perform the “MIDI Out Adjust / MIDI Kit #81529” procedures in the next section.
5) Mount Components to the piano

### Connecting to PianoDisc

1] Insert SD Card
2] Connect PLx Ribbon Cable to KEYSCAN ALT
3] Connect TP-Link Ethernet Cable
4] Audio #3 to Speaker System
5] Connect MIDI
6] Connect TP-Link to AC Power
7] Connect Speaker to AC Power

To the MIDI IN of PianoDisc, Disklavier or LX System

From Audio Out of PianoDisc

Amplified Speaker

Mixed Audio to Speaker

LAST STEP Connect PMII’s AC/DC Power Adapter
MIDI Out Adjust / MIDI Kit #81529

This procedure is used when the PMII MIDI Kit #81529 is connected to a piano with a non-QRS player system. In these installations the only connection from the PMII processor to the piano is via the 5-Pin MIDI Out socket. PMII MIDI Out to the MIDI In of the other player system.

Go to System Setup / Performance Setup / Curves. Set all three curves to “Linear”, see page 21.

The non-QRS player system attached to the piano must be in good working order and the key force settings adjusted. The following “Midi Out Min Vel:” key adjustments cannot soften the volume of the keys softer than the player system’s key force settings.

Press “System Setup”, Performance Setup” and then “Key Adjust”. There is no “save” button. Your changes are automatically saved to memory.

Piano key #5 should begin to repeat.

Press the “Less” and “More” buttons so that the selected note plays as softly as possible. Press the “Key>” button to advance to the next not. Repeat for all keys.
Press the “Key>>” button to play chromatic scale to verify that all notes play correctly. Press “Exit” when finished.

Previous Key / Key Number / Next Key

Min Vel: Adjust so key plays as softly as possible.

“Extend”: Sets the Force value “displayed” to all notes upscale.

All Key
Clicking “More” or “Less” increases or decreases the force for ALL Keys.

ARP
Plays a three-key arpeggio. “Less” and “More” adjusts the middle key.

Chromatic Scale: Down/Up. Use as a final test.

Please press the EXIT button when finished. Otherwise the note will continue to play.
Remove the Existing Pianomation Processor

- Turn OFF the player system and unplug the AC power cord from the wall outlet.
- Locate the Pianomation processor. It’s within a foot of the power supply.
- **The power supply is a black box the size of a loaf of bread.**
  - **GRAND** - the processor is mounted to a beam under the soundboard area.
  - **UPRIGHT** - remove the lower panel to gain access to the power supply.

- Flip the ON/OFF switch on the power supply to the OFF position.

- Disconnect all of the cables from the old Pianomation processor.
  - **TO POWER SUPPLY**
  - **TO CD/USER INTERFACE [To User Box]**
  - **TO SOLENOID RAIL [To Driver Boards]** This ribbon cable may be held in by two small screws.

 Older processors, part # 70100 - circa 1992-1997, use a different type of “To Driver Boards” connector needed to connect the new processor to the driver boards located at the solenoid rail. If you have the processor type shown below you must replace the cable. **Order part # 811433**

Remove the old Pianomation processor and brackets from the piano by removing the 4 screws.

Disconnect all cables and **Remove the old Controller** from the piano.
Mount and Connect the New PMII Processor

Mounting the new PNOmation II processor to the piano.

When upgrading a current system, place the new processor in the same location as the original. On a new system installation with record, place the processor in a location where all of the cables will reach:

- **Driver Port B** - To Driver Boards
- **Power Supply**
- **Keyscan Primary** - To the record system’s Soft-Shift circuit board.

Position it so that the connectors are easily accessible.

The mounting brackets are attached to the processor when shipped.

Secure the new PMII processor to the piano with the screws provided.

### Connect these cables to the new PNOmation II processor.

- **“DRIVER Port B”** This is the 1-1/2” flat gray cable going to the driver boards
- **“POWER SUPPLY”** This is the 3/4” flat gray cable going to the power supply
- **“KEYSCAN PRIMARY”** - *QRS PNOscan Record Systems Only*
  
  White flat cable coming from the record system’s Soft-Shift circuit board and it may be connected into the PNOscan II interface under the piano keybed. If so, disconnect it from the PNOscan interface.

Front and rear views of this PNOscan II unit is shown at the bottom of this page.

---

The TUSB control box for the PNOscan II record system, shown here, is not needed with the new PNOmation II system. If you’re upgrading an existing QRS Pianomation system with PNOscan II record, disconnect the flat white cable (black on newer units) from the Primary Port and plug it into the Pianomation II Controller’s Keyscan Primary port. The silver “contact” side of the cable faces away from the word “Primary.”

---

**Mounting Brackets**

![Mounting Brackets](image)
Mount and Connect the Pin-Light Extension - PLx

The Pin-Light Extension serves several functions:

- Six lights will display valuable information about your system.
- The built-in IR Sensor will allow you to use your existing QRS Remote to control PMII.
- USB A- USB Mini B & 1/8” stereo jacks extend the ports from PMII to an accessible position on the piano.
- The button is for Play / Stop / Standby and Reset.

Mount the PLx unit under the keybed at the treble side of the piano.

Connect one end of the 6-pin flat ribbon cable to the PMII’s “ALT” port. The black side of the cable faces the word “ALT”

Connect the other end of the 6-pin flat ribbon cable to the PLx connector. Connect so the black side faces the ceiling.

Connect the USB A Male cable to one of the USB Host sockets on the PMII.
Connect the other end of the cable, USB 5-Pin Mini B, to back of the PLx.

Connect the USB B Male cable to the “USB Client” port of the PMII.
Connect the other end, USB A Male, to the back of the PLx.

Connect one end of a 1/8” audio cable to the PMII’s Audio #1 socket.
Connect the other end [Use Adapter] to the last 1/8” socket of the PLx. PMII External [AUX Line Input] Source.

Connect to home stereo system. Mixes Synth Piano with Audio.

Connect one end of a 1/8” audio cable to the PMII’s Audio #4 socket.
Connect the other end [Use Adapter] to the remaining 1/8” socket of the PLx.

An additional USB A to USB Mini B cable is provided for user to connect to computer for recording purposes. A record system is required.
Connect the Ethernet cable from the Wi-Fi device to the Ethernet port on the PMII processor.

Connect the Wi-Fi Power Adapter to the **Un-Switched** outlet on the power supply.

Using the Velcro strip supplied, attach the wireless unit to the piano.

Connect your powered speaker to Audio #3 jack. *Use the 1/8” stereo-to-RCA cable provided.*

Plug the AC power cord into the AC wall outlet.

Turn the power supply switch ON.

The system will power on...

**Mount and Connect the Wi-Fi Adapter and Speaker**

**TP-Link Wi-Fi**

**QRS PMII Processor**

**Amplified Speaker**

**Wi-Fi Power Adapter**

**To Un-Switched Outlet**

**AC Wall Outlet**

**Wirelessly Connect to PMII and Power ON [Stand Alone Mode]**

Connect to the Piano. See page 4 for details.

Go to Key and Pedal Adjust on pages 32-33.
**Invert Keyboard:** *Shown OFF, for Grand's*  
Reverses the direction of play, usually on, as shown, for upright pianos.

**Magic Pedal:** *Shown “OFF”*

**Lowest Key:** Set to 5 for 80 note systems and 1 for 88 note installations.

**Lowest Note:** Refers to the MIDI note number.  
Set to 25 for 80 note installations, 21 for 88 note.

**Transpose:** Set to 0.

**MIDI Out Delay:** Sets the piano delay of the 5-Pin MIDI Out socket. Default = 500.

**Solenoid Delay (Ms):** Sets the piano delay to the QRS driver boards. Default = 500.

**Solenoid SPI Speed (Slow=Off, Fast=On)**  
*Turn ON if you hear intermittent loud notes.*

All other settings are reserved for QRS system set-up and should not be changed by user.

**Restore to Default:** Resets all Playback Parameters to Factory settings

**Apply Changes:** Press to save any changes that were made.
## Performance Setup

### Curves

Tweak the Output Velocity as the Input Velocity increases. Separate curves for Piano Playback, Record and 5-Pin MIDI OUT.

When PMII is used as a Controller for other Systems

Set ALL curves to Linear when the PMII MIDI OUT is used to drive other player systems.

---

<table>
<thead>
<tr>
<th>CURVES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>QRS Content Curve Presets</strong>&lt;br&gt;(Applies to QRS Library)</td>
</tr>
<tr>
<td>Linear</td>
</tr>
<tr>
<td><strong>Record Curve Presets</strong>&lt;br&gt;(Applies to MIDI Files)</td>
</tr>
<tr>
<td>Linear</td>
</tr>
<tr>
<td><strong>MIDI Out Curve Presets</strong>&lt;br&gt;(Applies to 5 Pin MIDI Output)</td>
</tr>
<tr>
<td>All Channels: Linear</td>
</tr>
<tr>
<td>Channel 1</td>
</tr>
<tr>
<td>Channel 16</td>
</tr>
<tr>
<td><strong>Synth Curve Preset</strong></td>
</tr>
<tr>
<td>Linear</td>
</tr>
</tbody>
</table>
Performance Setup

**Key Adjust - Basic**

If this is a MIDI Upgrade Kit go to the “MIDI Out Key Adjust” page.
The “MIDI” kits (81529) do not have a cable connected to the PMII “DRIVER PORT A or B” sockets.

The “Basic” adjustment sets the minimum force for each key. The goal is to adjust so the key plays softly.

Press “System Setup”/ “Performance Setup”/ “Key Adjust”.
Press “Basic Adjust”/ “Start”.

Key #5 should begin to repeat. [Key #1 for 88 note systems]

Tap the “Less” and “More” buttons so the key plays as softly as possible.
Press the “xtnd” button to set all keys up-scale to the displayed force value.
Press the “Key->” to advance to next key.
Adjust all keys.

Changes are automatically saved to memory.

To Test: Press the “Key>>” and verify that every key plays.
If necessary, press the “<-Key” / “Key->” buttons to readjust keys that don’t play.

For noisy actions increase the Global Cushion value.
Increasing the Global Cushion decreases repetition efficiency.

Perform the “Repeat Adjust”

### Scope
- **All Key**: Clicking “More” or “Less” increases or decreases the force for **ALL Keys**.
- **Chromatic Scale: Down/Up. Use as a final test.**
- **Global Cushion**: Pulse force applied to cushion key as it falls. Use only for noisy actions.

<table>
<thead>
<tr>
<th>Previous Key / Key Number / Next Key</th>
<th>Legato Drive “Force”: Adjust so key plays as softly as possible.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>“Extend”: Sets the Force value “displayed” to all notes up-scale.</td>
</tr>
<tr>
<td></td>
<td>Clicking “More” or “Less” increases or decreases the force for <strong>ALL Keys</strong>.</td>
</tr>
<tr>
<td></td>
<td>Entering a number in the force box sets the Key Force value entered to <strong>ALL Keys</strong>.</td>
</tr>
<tr>
<td></td>
<td>Chromatic Scale: Down/Up. Use as a final test.</td>
</tr>
<tr>
<td></td>
<td>Pulse force applied to cushion key as it falls. Use only for noisy actions.</td>
</tr>
</tbody>
</table>

Press the EXIT button when finished. Otherwise the note will continue to play.
Performance Setup

Key Adjust - Repeat

The “Repeat” adjustment helps the key repeat consistently during fast music passages.

Press “Repeat Adjust”.

Repeat Adjustment Procedure

Scope:
“1 Key” should be selected

Velocity:
Press the Velocity “Down” button to set the Velocity value to 1

BPM:
Press the BPM “Down” button to set the BPM value to 210

Staccato Drive:
Press the Staccato Drive’s “More” button to set a value of 12
Press the “xtnd” button to set all keys up-scale to 12

Repetition Drive:
Press the “More” button to set the Repetition Drive’s value to 70
Press the “xtnd” button to set all values up-scale to 70

For each key (5-84 on 80 note systems /1-88 on 88 note systems):
Adjust the Repetition Drive so that the key repeats as consistently as possible.
Begin by pressing the “Less” button…
A] As you lower the repetition level from 70, you will get to a number were the key stays depressed.
B] Keep pressing the “Less” button until the key hesitates during the repetition.
Press the “More” and Less buttons to get the best repetition between A & B above.

Press the “Key->” to advance to next key.
Repeat the Repetition Drive procedure for all keys.

If you have to readjust the Legato Drive be sure to reset the Repetition Drive value for that key.
Press “Exit” when finished.
# Performance Setup

## Pedal Adjust

*This procedure is not necessary on systems that do not have a sustain pedal solenoid.*

Press “System Setup”, Performance, “Pedal Adjust” and slide the “Start/Stop Test” button to the right.

The sustain pedal solenoid and the sustain dampers should start to cycle ON and OFF.

Turn OFF the “Thump Reduction” by sliding the button to the left.

Press the “-” buttons to set the “Initial Drive” and “Hold” values to zero.

Watch the sustain dampers and press the Initial Drive’s “+” button until the dampers move off the strings.

Then, press the Hold “+” button until the dampers lift up and hold off of the strings.

Turn ON the “Thump Reduction” to pulse the solenoid as it’s release to break it’s fall and reduce noise.

Adjust the release up and down until the solenoid drops quietly.

Stop the adjustment by sliding the “Start/Stop Test” button to the left.

## Test Files

Press “System Setup”, Performance Setup, “Test Files”

Select “PedalKeySync.MID” to test your pedal adjustment.

Check out other test files.
Performance Setup

PNOscan Adjust

The following adjustments are necessary after the initial PNOscan installation or when the system isn’t recording properly.

Select System Setup, Record Setup and then PNOscan Adjust.

Press the Calibrate button.
The “PNOscan Adjustment Started” box will appear.
At this point the previous calibration has been cleared.

To calibrate the PNOscan key sensors you’re going to play each key, in sequence, starting at the bass end of the keyboard. Watch the MIDI light on the PLx box and press the first bass-end key.

The light will flicker red indicating that the key is set. Release the key and proceed up the keyboard. Move to the next key when the PLx light flashes. Press OK when finished.

Adjust the Sustain Pedal.
Click the arrow to the right of the Trigger button.
Verify that the Sustain Mode is Basic.
Wait for changes in the Rest, Down and Trigger values as you make adjustments.
Press the Rest button.
Depress the sustain pedal and press the Down button.
Release the pedal and depress until the strings sustain.
Hold the pedal and press the Trigger button.

It’s not necessary to adjust the Soft Pedal unless you’re using computer software.

If you need to adjust:
Press the drop-down arrow.
Set the Soft Mode to Basic
Follow the same “Sustain Pedal” procedures above with the soft pedal.

No adjustments are necessary for the Sostenuto pedal.

The PNOscan adjustments are complete. Continue to the User Guide on the next page.

Always put the system in Standby Mode when you are finished for the day.
Wi-Fi Configurations

Please update PMII to Version 5.33 or higher before switching modes.

See the “Updating the Driver “Operating System” [OS Update]” section of this manual for details.

Both PMII AND the Piano’s Wi-Fi device must be programmed to change modes.

<table>
<thead>
<tr>
<th>Stand Alone Mode</th>
<th>Network Mode</th>
<th>iPad</th>
<th>Network Mode WPA</th>
<th>iPad</th>
<th>Network Mode WEP</th>
<th>iPad</th>
<th>Power line</th>
<th>Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>192.168.1.1</td>
<td>192.168.1.1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>#3 Light is Green</td>
<td>#3 Light is Yellow</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PMII is NOT connected to the Internet. Wirelessly connect to the piano’s Wi-Fi device named QRSPNO ####. PM II and the users Android, iPod Touch, iPhone, iPad or Computer communicate with each other. PM II delivers control on Android, Google Chrome or Safari web browsers. Connect by entering the IP Address of 192.168.1.1 in the address bar of the web browser.

PMII is connected to the Internet. The piano’s Wi-Fi device is programmed to communicate with the home network. PM II gets an IP Address from the home router. The advantage is that the users Android, iPod Touch, iPhone, iPad or Computer can be connected to the Internet and still control PM II. Connect via your web browser using the IP address provided by your home router.

Network Mode: You CAN run an Ethernet cable from the home router to the PMII processor and not use the Wi-Fi device that is attached to the piano. Don’t forget that you still must switch PMII to network mode.

<table>
<thead>
<tr>
<th>Net Gear EX6100</th>
<th>Stand Alone Mode</th>
<th>iPad</th>
<th>Network Mode WPA</th>
<th>iPad</th>
<th>Network Mode WEP</th>
<th>iPad</th>
<th>Power line</th>
<th>Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The following Wi-Fi devices will NOT connect to every make & model of router. If you find that you cannot program these devices to your home router, run an Ethernet cable or use a “Power line” type device.

<table>
<thead>
<tr>
<th>TP - Link WR702N</th>
<th>Stand Alone to Network Mode</th>
<th>Android</th>
<th>iPad; iPhone; iPod/Touch &amp; Safari</th>
<th>Windows 7 &amp; Google Chrome</th>
<th>Pg. 39</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Network to Stand Alone Mode</td>
<td>iPad; iPhone; iPod/Touch &amp; Safari</td>
<td>Windows 7 &amp; Google Chrome</td>
<td>Pg. 40</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Stand Alone Mode - Recover after a TP-Link Reset</td>
<td>iPad; iPhone; iPod/Touch &amp; Safari</td>
<td>Windows 7 &amp; Google Chrome</td>
<td>Pg. 41</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EnGenius ETR9330</th>
<th>Stand Alone Mode:</th>
<th>iPad</th>
<th>Network Mode:</th>
<th>iPad</th>
<th>Pg. 39</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>ASUS WL330N3G</th>
<th>Stand Alone Mode</th>
<th>iPad</th>
<th>Network Mode</th>
<th>iPad</th>
<th>Pg. 39</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ASUS WL330gE</th>
<th>Stand Alone Mode</th>
<th>iPad</th>
<th>Network Mode</th>
<th>iPad</th>
<th>Pg. 39</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>TRENDnet</th>
<th>Stand Alone ONLY</th>
<th>iPad</th>
<th>Network Mode</th>
<th>iPad</th>
<th>Pg. 39</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Security Options (Types)

WEP A-F and 0 - 9
WPA Made-Up Name
Please update PMII to Version 553 or higher before switching modes. See Updating the Driver “Operating System” [OS Update] section of the PMII User Guide.

Both PMII AND the Piano’s Wi-Fi device must be programmed to change modes.

**Mode:**

Stand Alone

192.168.1.1

NO connected to the Internet. PMII is wirelessly connected to the QRSPNO_2GEXT located under the piano. PMII and the Android, iPod Touch, iPhone, iPad, or Computer communicate with each other. PMII delivers control for Android, Google Chrome or Safari web browsers.

Connect to PMII by entering 192.168.1.1 in the address bar of the web browser.

### How to Configure the Netgear Extender EX6100 / AC750 for “Stand Alone” Mode [iPad Example]

**Programming the Netgear EX6100/AC750 for PMII in Stand Alone Mode.**

Press the “Power On/Off” button to turn OFF the EX6100.

Flip the “Access Point/Extender” switch to the “Access Point” position.

Press the “Power On/Off” button to turn ON the EX6100.

Wait for the Power LED to turn green.

Use a paper clip to press and hold the “Factory Reset” Button for 10 seconds.

Wait for the amber “Power LED” to blink at least 3 times.

Go to your device’s Wi-Fi settings and select “EX6100.Netgear_2GEXT”.

You may want to turn the Wi-Fi OFF and then ON to refresh the Wi-Fi list.

The reset EX6100 will broadcast two SSID names; EX6100.Netgear_2GEXT & 5GEXT

The Netgear “genie” should appear within one minute. Or, go to Safari & enter: www.mywifiext.net

Select “NO” for help and then select “Next”.

Answer “OK” to “...Are you sure?”

Authentication Required:
Enter username/password then select “Log In”.
Username = “admin”
Password = “password”

Go to “Setup / Wireless Setup”
Enter the new “2GEXT & 5GEXT” SSID Names
QRSPNO_2GEXT & QRSPNO_5GEXT

Press the “Apply” Button, wait for reboot.

Reconnect to QRSPNO_2GEXT & log-in
Go to “Setup / Internet Setup”
Select “Use Static IP Address”
IP Address = 192.168.1.6
IP Subnet Mask = 255.255.255.0
Gateway IP Address = 192.168.1.1

Select “Use These DNS Servers”
Primary DNS = 192.168.1.1
Secondary DNS = 10.0.0.250

Press the “Apply” button at the top of page and wait the Netgear to update & reboot.

Reconnect to QRSPNO_2GEXT & log-in again.
Go to Setup / LAN Setup
Un-Check “Enable NAT” and press “Apply”

An Ethernet cable must now be attached to the QRSPNO_2GEXT to wireless connect.

Using a QRS remote control:
Press the following buttons in sequence…
SHIFT FUNC 9 9 0 [F1/Source 9 9 0 for old style QRS remote]

Go to your device’s Wi-Fi settings and select “QRSPNO_2GEXT”.

Do not use the QRSPNO_5GEXT.

Open your web browser and enter “192.168.1.1” in the address bar.
This will take you to the QRS PMII menu.
**Wi-Fi Configurations**

Please update PMII to Version 553 or higher before switching modes.


Both PMII AND the Piano’s Wi-Fi device must be programmed to change modes.

PMII is connected to the Internet. The piano’s Wi-Fi device is programmed to communicate with the home network.

Mode: PMII gets an IP Address from the home router. The advantage is that the user’s Android, iPod Touch, iPhone, iPad or Computer can be connected to the Internet and still control PMII.

Connect via your web browser using the IP address provided by your home router.

**Using a QRS remote control:**
Press the following buttons in sequence…
SHIFT 9 9 1 [F1/Source 9 9 1]

**Programming the Net gear EX6100/AC750** for PMII in Network mode.

1. Flip the “Access Point/Extender” switch to the “Extender” position.
2. Plug the Net gear into an AC outlet in the same room as the home Wi-Fi network router.
   - If the Net gear does not power on, press the “Power On/Off” button.
   - Wait about 40 seconds, for the Power LED to turn green.
3. Use a paper clip to Press and Hold the “Factory Reset” Button for 10 seconds.
   - Wait for the amber “Power LED” to blink at least 3 times.
4. Go to your device’s Wi-Fi settings and Select “EX6100_Netgear_2GEXT”.
   - You may want to turn the Wi-Fi OFF and then ON to refresh the Wi-Fi list.
5. The reset EX6100 broadcasts two SSIDs: EX6100_Netgear_2GEXT & 5GEXT
6. The Net gear “genie” should appear within one minute.

If requested, enter username = “admin” and password = “password and then Select “Log In”.

Select your 2G home Wi-Fi network.
Select “Continue”.
Enter your home Wi-Fi password.
Select “Continue”.

Skip the 5G network

Select “Private Network”.
Select “Continue”.

Summary Page:
Move to the bottom of the page and select “Continue”.
Select “OK”.

Wait for the Net gear to apply changes and reboot.

Go to your device’s Wi-Fi settings and Select “####_2GEXT”.
*The Net gear will be renamed to incorporate your home Wi-Fi name.*

To test the setup, go to your web browser and see if you can surf the internet.

Unplug the Net gear and connect it to an AC outlet under the Piano.
Use the “UNSW” outlet on the large power supply under the piano. *You may need a short extension cord.*
Connect the Ethernet cable from the PMII processor to the Net gear.

USE the QRS remote control to find the IP address assigned to PMII by your home router:
Press the following buttons in sequence…SHIFT 3 [F1/Source 9 9 2]

Use the IP address announced to connect to PMII.
Wi-Fi Configurations

How to Configure the Net gear Extender EX6100 / AC750 To "Network" Mode [Home Wi-Fi = WEP Security] [iPad Example]

Please update PMII to Version 553 or higher before switching modes.

See Updating the Driver "Operating System" [OS Update]" section of the PMII User Guide.

Both PMII AND the Piano’s Wi-Fi device must be programmed to change modes.

PMII is connected to the Internet. The piano’s Wi-Fi device is programmed to communicate with the home network.
Mode: PM II gets an IP Address from the home router. The advantage is that the users Android, iPod Touch, iPhone, iPad or Computer can be connected to the Internet and still control PMII.
Connect via your web browser using the IP address provided by your home router.

Using a QRS remote control:
Press the following buttons in sequence…
SHIFT FUNC 9 9 1 [F1/Source 9 9 1]

Programming the Net gear EX6100/AC750 for PMII in Network mode.

Flip the “Access Point/Extender” switch to the “Extender” position.
Plug the Net gear into an AC outlet in the same room as home Wi-Fi network router.

If the Net gear does not power on, press the “Power On/Off” button.
Wait, about 40 seconds, for the Power LED to turn green.

Use a paper clip to Press and Hold the “Factory Reset” Button for 10 seconds.
Wait for the amber “Power LED” to blink at least 3 times.
Go to your device’s Wi-Fi settings and Select “EX6100_Netgear_2GEXT”.

The reset EX6100 broadcasts two SSIDs: EX6100_Netgear_2GEXT & 5GEXT
The Net gear “genie” should appear within one minute.
If requested, enter username = “admin” and password = “password and then Select “Log In”.
Select your 2G home Wi-Fi network.
WEP Security [Capital Letters A-F and Numbers 0-9]
Select “Continue”.
Enter your home Wi-Fi password in the “Key 1” box.
Select “Continue”.

Skip the 5G network
Select “Private Network”.
Select “Continue”.

Summary Page:
Move to the bottom of the page and select “Continue”.
Wait for the Net gear to apply changes and reboot.
Go to your device’s Wi-Fi settings and Select “####_2GEXT”.
The Net gear will be renamed to incorporate your home Wi-Fi name.
To test the setup, go to your web browser and see if you can surf the internet.
Unplug the Net gear and connect it to an AC outlet under the Piano.
Use the “UNSW” outlet on the large power supply under the piano. You may need a short extension cord.
Connect the Ethernet cable from the PMII processor to the Net gear.
USE the QRS remote control to find the IP address assigned to PMII by your home router:
Press the following buttons in sequence…SHIFT 3 [F1/Source 9 9 2]
Use the IP address announced to connect to PMII.
1. Plug one node of the power line adaptor directly into a wall outlet behind your homes router. First light will turn green representing power
2. Plug an Ethernet cable into the power line adaptor and then into the router.
3. Plug the other node of the power line adaptor into the extension cord under your piano. The first light will turn green representing power and the second light will turn a steady green representing that it sees the other node. If it does not see the other node you can push a find button on the node itself.
4. Unplug the Ethernet cable from the existing WiFi adaptor and plug it into the power line adaptor. The third line will blink saying it is sending and receiving data. The pianos voice prompts will say network off then turn back on and give you a network IP address
5. A voice prompt should announce your new IP address. If you do not hear it use the remote and select “Shift”“3” To announce it again
6. Log into your homes Wi-Fi network
7. Open your web browser
8. In the address bar enter the new IP address
9. PNOmation should open up
10. Create a shortcut and you are ready to go
11. Do NOT connect either power line adapter into a surge protector or an outlet strip.
Wi-Fi Configurations

How to Configure the TP-Link: "Stand Alone" to "Network" Mode

[ Samsung Android Example]

Change PMI to Network Mode

From an iPod/Touch, iPhone or iPad Go to:
System Setup/ Other Settings / Network Settings
Turn OFF DHCP Server Enable (Standalone)
Turn ON Static IP(OF or DHCP Client(on)
Press the Apply Changes Button
Press Yes to apply.
Press Yes again to confirm.

or

From a QRS Remote Control
Press the following buttons in sequence…
SHIFT, FUNC, 9, 9, 1
Third light flashes red/green and then solid yellow

You will be Disconnected from PMII

Set a Static IP Address on your Android device:

Select Settings and then Wi-Fi. Turn ON if necessary
Press and Hold QRSPNO ####

Select "Modify network config" Select "Show advanced options"
Select "Static" under IP Address

Selectthe following:
Proxy settings = None
IP address = 192.168.0.5
Gateway = 192.168.0.254
Press “Save”
Go back to Settings / Wi-Fi
Touch “QRSPNO #### and select “Connect”

Select the Android “Globe” browser
Enter 192.168.0.254
Press GO
Enter admin as the User Name and Password.
Press Log In

Press Quick Setup
Press Next

Press Bridge Mode
Press Next

Press the Survey button to view Wi-Fi list.
Note the “Channel” & click “Connect” to join your network.
Select the Security Option type of your home network
Enter your home network's Password
Click Next

Select Disable Security
Click Next

Click Reboot
Click OK to confirm

Wirelessly connect to your home router.
Open the Safari and enter qrspno.local then press "GO".
You may also enter the IP Address heard from the speaker.
If you did not hear the IP address press SHIFT and then INFO on the QRS remote control.

If you cannot connect to the PMII controls, re-connected to the QRSPNO, open the Safari browser and see
if you can connect to the Internet. If you can't connect, the TP-Link is not "Bridged" to the home router.
Double check your Security Options type and password and try again.

If you successfully connected to PMII reconnect to the QRSPNO Wi-Fi
Reconnect to the TP-Link and select “Quick Setup”.
• Select “Client” and “Next”.
• Select your Security Type and Password again.
• Press “Save” and then "OK" to Reboot and "OK" to verify

Wirelessly connect to your home router.
Open the Safari browser and enter qrspno.local and then press “GO”.
How to Configure the TP-Link: “Stand Alone” to “Network” Mode

**Change PMI to Network Mode**
- From an iPod/Touch, iPhone or iPad, Go to...
  - System Setup/ Other Settings / Network Settings
  - Turn OFF DHCP Server Enable (Standalone)
  - Turn ON Static IP (off) or DHCP Client(on)
  - Press the Apply Changes Button
  - Press Yes to apply.
  - Press Yes again to confirm.

**From a QRS Remote Control**
- Press the following buttons in sequence...
  - SHIFT FUNC 9 9 1
  - Third light flashes red/green and then solid yellow

You will be **Disconnected from PMII**

**Set a Static IP Address on your iTouch, iPhone or iPad**
- Select Settings and then Wi-Fi, Turn ON if necessary
- Select and Connect to QRSPNO ####

**Select the Blue Circle to the right of QRSPNO Network**
- Select Static and enter the following:
  - IP address = 192.168.0.5
  - Subnet mask = 255.255.255.0
  - Router = 192.168.0.254
  - DNS = 192.168.0.254
  - HTTP Proxy should be OFF

**Select the Safari browser**
- Enter 192.168.0.254
- Press GO
- Enter admin as the User Name and Password.
  - Press Log In
  - Press Quick Setup
  - Press Next
  - Press Bridge Mode
  - Press Next
  - Press the Survey button to view Wi-Fi list.
  - Note the “Channel” & click Connect to join your network.
  - Select the Security Type of your home network
  - Enter your home network’s Password
  - Click Next
  - Select Disable Security
  - Click Next

**Click Reboot**
- Click OK to confirm

Wirelessly connect to your home router.
- Open the Safari and enter qrspn0.local then press “GO”.
  - You may also enter the IP Address heard from the speaker.
  - If you did not hear the IP address press SHIFT and then INFO on the QRS remote control.

**If you cannot connect to the PMII controls, re-connected to the QRSPNO**, open the Safari browser and see if you can connect to the Internet. If you can’t connect, the TP-Link is not “Bridged” to the home router. Double check your Security Options type and password and try again.

**If you successfully connected to PMII reconnect to the QRSPNO Wi-Fi**
- Reconnect to the TP-Link and select “Quick Setup”.
  - Select “Client” and “Next”.
  - Select your Security Type and Password again.
  - Press “Save” and then “OK” to Reboot and “OK” to verify

Wirelessly connect to your home router.
- Open the Safari browser and enter qrspn0.local and then press “GO”.

<table>
<thead>
<tr>
<th>ID</th>
<th>SSID</th>
<th>Signal</th>
<th>Channel</th>
<th>Security</th>
<th>Choose</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>00-0C-41-BE-40-90</td>
<td>59dB</td>
<td>6</td>
<td>OFF</td>
<td>Connect</td>
</tr>
<tr>
<td>2</td>
<td>EC-1A-59-3E-4E-DW</td>
<td>63dB</td>
<td>11</td>
<td>ON</td>
<td>Connect</td>
</tr>
<tr>
<td>3</td>
<td>78-CD-8E-39-AD-08</td>
<td>47dB</td>
<td>1</td>
<td>ON</td>
<td>Connect</td>
</tr>
</tbody>
</table>
How to Configure the TP-Link: “Stand Alone” to “Network” Mode

[Windows 7 - Google Chrome Example]

Change to Network Mode: Connect to PMII and Go to...
System Setup/Other Settings / Network Settings
Turn OFFDHCP Server Enable (Standalone)
Turn ON Static IP (off) or DHCP Client(on)
Press the Apply Changes Button
Press Yes to confirm and Press Yes again.
You will be Disconnected from PMII

Set a Static IP on your computer
A Left-Click on the network signal strength indicator
B Connect to the QRSNO Stand Alone
C Left-Click on the network signal strength indicator
Select Open Network and Sharing Center
D Select Change Adapter Settings
E Right-Click over active Wireless Network Connection
Select Properties
F Select Internet Protocol Version 4 (TCP/IPv4)
Select Properties
G Select Use the following IP address and enter:
IP address = 192.168.0.5
Subnet mask = 255.255.255.0
Gateway = 192.168.0.1
Press the OK button, wait... and Close all windows

Open Google Chrome and navigate to 192.168.0.254
Enter admin as the User Name and Password
Press the Log In button to open the “TP-Link” Menu
Select the WAN option below “Network”

Enter the following:
WAN Connection Type = Static IP
IP address = 192.168.1.5
Subnet mask = 255.255.255.0
Default Gateway = 192.168.1.1
Primary DNS = 192.168.1.1
Secondary DNS = 192.168.0.254
Click Save
Click Quick Setup and then Click Next
Select Client Mode and then Click Next
Click the Survey button
Click Connect for the SSID of the network you wish to join
Select Security Options WEP or WPA to match your network
Enter your network Password in the “Password” box
Click Next
Select Disable Security
Click Next
Click Reboot
Click OK

Restart - Wait for the TP-Link to finish and restart
Close Google Chrome when 100% Complete

Connect to your home network
PLx light # 3 should be YELLOW.
The TP-Link is now linked to your home network and ready for “Network Mode” on the PMII.
If you did not hear the IP address press SHIFT and then INFO on the QRS remote control.
Open Safari or Google Chrome and enter the IP address heard from the speaker.

From a QRS Remote Control
SHIFT FUNC 9 9 #3 PLx light = solid yellow
Wi-Fi Configurations

How to Configure the TP-Link: “Network” to “Stand Alone” Mode [iPad & Safari Example]

Set a Static IP Address on your iTouch, iPhone or iPad
Select Settings and then Wi-Fi, Turn ON if necessary
Select and connect to QRSPNO Network

Select the Blue Circle to the right of QRSPNO Network
Select Static
Enter the following:
- IP address = 192.168.0.5
- Subnet mask = 255.255.255.0
- Router = 192.168.0.254
- DNS = 192.168.0.254
- HTTP Proxy should be OFF
Go back to your home screen…

Select the Safari browser
Enter the following address:
192.168.0.254 and press “Go”

Enter “admin” as the User Name and Password
Press the “Log In” button

Click Quick Setup
Click Next

Select Router Mode
Click Next

Change the SSID to QRSPNO Stand Alone
Set Channel to Auto
Under Security Options: Select Disable Security
Click Next

Under WAN Connection Type select Static IP
Click “Next”

Enter the following:
- WAN Connection Type = Static IP
- IP address = 192.168.1.5
- Subnet mask = 255.255.255.0
- Default Gateway = 192.168.1.1
- Primary DNS = 192.168.1.1
- Secondary DNS = 192.168.0.254
Click Next or Save

Click Reboot
Click OK
Restart - Wait for the TP-Link to finish and restart
Close browser when 100% complete

On the QRS PNoMotion II remote control:
Press the following buttons in sequence…
- SHIFT FUNC 9 9 0
The third light should be green
Press SHIFT INFO to confirm the 192.168.1.1 address

The device is now ready for “Stand-Alone Mode” on the PMII.
Select Settings and then Wi-Fi, on your iPad, iPhone or iTouch.
Select and Connect to QRSPNO Stand Alone
Open Safari and enter 192.168.1.1
How to Configure the TP-Link: “Network” to “Stand Alone” Mode [Windows 7 & Google Chrome Example]

Set a Static IP on your computer
A Left-Click on the network signal strength indicator
B Connect to the QRSPNO Network
C Left-Click on the network signal strength indicator
Select Open Network and Sharing Center
D Select Change Adapter Settings
E Right-Click over active Wireless Network Connection
Select Properties
F Select Internet Protocol Version 4 (TCP/IPv4)
Select Properties
G Select Use the following IP address and enter:
IP address = 192.168.0.5
Subnet mask = 255.255.255.0
Gateway = 192.168.0.1
Press the OK button, wait and Close all windows
Open Google Chrome and navigate to 192.168.0.254
Enter admin as the User Name and Password
Press the Log In button
Click Quick Setup
Click Next
Select Router Mode
Click Next
Change the SSID to QRSPNO Stand Alone
Set Channel to Auto
Under Security Options: Select Disable Security
Click Next
Under WAN Connection Type select Static IP
Click “Next”
Enter the following:
WAN Connection Type = Static IP
IP address = 192.168.1.5
Subnet mask = 255.255.255.0
Default Gateway = 192.168.1.1
Primary DNS = 192.168.1.1
Secondary DNS = 192.168.0.254
Click Next or Save
Click Reboot
Click OK
Restart - Wait for the TP-Link to finish and restart
Close Google Chrome when 100% Complete
On the QRS Pnomation II remote control:
Press the following buttons in sequence:
SHIFT    FUNC    9    9    0 - The third light should be green.
Press SHIFT INFO to Confirm the IP address.
C Left-Click on the network signal strength indicator
Select Open Network and Sharing Center
D Select Change Adapter Settings
E Right-Click over the Wireless Network Connection
Select Properties
F Select Internet Protocol Version 4 (TCP/IPv4)
Select Properties
G Select Obtain an IP address automatically
Press the OK button, wait a few seconds
Close all windows
The device is ready for Stand-Alone Mode on the PMII
Connect to the QRSPNO Stand Alone
Open Google Chrome and Navigate to 192.168.1.1
Wi-Fi Configurations

How to Recover the TP-Link: to “Stand Alone”: after a TP-Link Reset [iPad & Safari Example]

The TP-Link has been pre-programmed at QRS & it’s not necessary to reset it. If the SSID name shown on the back of the TP-Link appears in your wireless network connection list, it’s been reset. To reset, press and hold the “Reset” button on the side of the TP-Link for 8 seconds, or until the light blinks at least 3 times.

Select Settings and then Wi-Fi on your iPad, iPhone or iTouch
Select and Connect to the TP-Link
TP-Link_50B880in our example
You may be asked for the TP-Link’s password.
It’s located on the back of the TP-Link.

Set a Static IP address on your iTouch, iPhone or iPad
Touch the blue circle to the right of the TP-Link
Enter the following:
IP address = 192.168.0.5
Subnet mask = 255.255.255.0
Router = 192.168.0.254
DNS = 192.168.0.254
Go back to your home screen…

Select the Safari browser
Enter the following address: 192.168.0.254 and press Go
Enter admin as the User Name and Password
Press the “Log In” button.
Click Quick Setup
Click Next
Select Router Mode
Click Next
Change the SSID to QRSPNO Stand Alone
Set Channel to Auto
Under Security Options: Select Disable Security
Click Next
Under WAN Connection Type select Static IP
Click “Next”
Enter the following:
WAN Connection Type = Static IP
IP address = 192.168.1.5
Subnet mask = 255.255.255.0
Default Gateway = 192.168.1.1
Primary DNS = 192.168.1.1
Secondary DNS = 192.168.0.254
Click Next or Save
Click “Reboot”
Click “OK” to confirm.
The TP-Link will configure and restart.

Select Settings and Wi-Fi & connect to QRSPNO Stand Alone
Log into the TP-Link again using Safari & 192.168.0.254
Select DHCP Settings under Advanced Settings/DHCP
Select or Enter the following:
DHCP Server = Enabled
Default Gateway = 192.168.0.254
Default Domain = local
Primary DNS = 192.168.0.254
Secondary DNS = 192.168.1.1
Click “Save” & “OK”
Click “click here”, then “Reboot” & “OK”
On the QRS PNOmation II remote control:
Press the following buttons in sequence…
SHIFT  FUNC  9  9  0
The third light should be green.
Press SHIFT INFO to confirm the 192.168.1.1 address.
The device is ready for Stand-Alone Mode on the PMII
Connect to the QRSPNO Stand Alone
Open Safari and Navigate to 192.168.1.1
How to Recover the TP-Link: to “Stand Alone” after a TP-Link Reset [Windows 7 Google Chrome Example]

The TP-Link has been pre-programmed by QRS so it’s not necessary to reset it. But, if the SSID name shown on the back of the TP-Link appears in your wireless network connection list, it’s been reset. To reset the TP-Link, press and hold the “Reset” button on the side of the TP-Link for 8 seconds, or until the light blinks at least 3 times.

Set a Static IP on your computer

A. Left-Click on the network signal strength indicator

B. Connect to the TP-LINK
   TP-LINK_9A4203 in our example
   You may be asked for the password on the back of the TP-Link
   Enter the Password from the back or the TP-Link
   Press the Log In button

C. Left-Click on the network signal strength indicator
   Select Open Network and Sharing Center
   Select Change Adapter Settings
   Right-Click over active Wireless Network Connection
   Select Properties

D. Select Internet Protocol Version 4 (TCP/IPv4)
   Select Properties
   Select Use the following IP address and enter:
   IP address = 192.168.0.5
   Subnet mask = 255.255.255.0
   Gateway = 192.168.0.1
   Press the OK button, wait and Close all windows

Open Google Chrome and navigate to 192.168.0.254
Enter admin as the User Name and Password
Press the Log In button
Click Quick Setup
Click Next
Change the SSID to QRSPNO Stand Alone
Set Channel to Auto
Under Security Options: Select Disable Security
Click Next
Under WAN Connection Type select Static IP
Click “Next”
Enter the following:
   WAN Connection Type = Static IP
   IP address = 192.168.1.5
   Subnet mask = 255.255.255.0
   Default Gateway = 192.168.1.1
   Primary DNS = 192.168.1.1
   Secondary DNS = 192.168.0.254
Click Next or Save
Click Reboot
Click OK
Restart - Wait for the TP-Link to finish and restart
Close Google Chrome when 100% Complete
On the QRS PNOmation II remote control:
Press the following buttons in sequence:
SHIFT  FUNC  9 9 0 - The third light should be green
Press SHIFT INFO to Confirm the IP address.

C. Left-Click on the network signal strength indicator
   Select Open Network and Sharing Center

D. Select Change Adapter Settings

E. Right-Click over the Wireless Network Connection
   Select Properties

F. Select Internet Protocol Version 4 (TCP/IPv4)
   Select Properties

G. Select Obtain an IP address automatically
   Press the OK button, wait... and Close all windows

The device is ready for Stand- Alone Mode on the PMII
Connect to the QRSPNO Stand Alone
Open Google Chrome and Navigate to 192.168.1.1
Wi-Fi Configurations

How to Reset the EnGenius ETR9330 to "Stand Alone Mode" [Windows 7 & Google Chrome Example]

Press and hold the WPS button for about 10 seconds. Release after the power button flashes a few times.

Connect to the EnGenius xxxx Wi-Fi device.

Open Google Chrome, Android browser, or Safari, and navigate to 192.168.0.1. Enter "admin" as the User Name and Password. Press the "Log In" button.

Select Wireless. Enter "QRSPNO" for SSID1. Press the "Apply" button. Wait for the EnGenius to reload.

Connect to QRSPNO.

Open Google Chrome, Android browser, or Safari, and navigate to 192.168.0.1. Enter "admin" as the User Name and Password. Press the "Log In" button.

Select System / LAN.

Select "User-Defined" option from the Secondary DNS drop down box. Enter "192.168.1.1" as the Secondary DNS address. Press the "Apply" button and wait for EnGenius to reload. Close browser.

On the QRS PNOmation II remote control:
Press the following buttons in sequence…
SHIFT   FUNC   9   9   0
The third light should be green. Press SHIFT   INFO   to confirm the 192.168.1.1 address.

Verify that you are still connected to QRSPNO
Open your browser to 192.168.1.1 to connect to PMII.
Wi-Fi Configurations

How to Configure the EnGenius ETR9330 to “Network” Mode  [Windows 7 & Google Chrome Example]

You will need the following information from your home network:
- Network Name (SSID)
- Encryption Type
- Key Type
- Encryption Key

Using a QRS remote control:
Press the following buttons in sequence…
SHIFT  FUNC  9  9  1 [F1/Source 9 9 1]
Third light flashes red/green and then solid yellow.

Connect to QR SPNO.

Open Google Chrome, Android browser, or Safari, and navigate to 192.168.0.1
Enter “admin” as the User Name and Password.
Press the “Log In” button.

Select “Wizard”.
Press the “Next” button.

Select “Client Bridge Mode”
Press the “Next” button.

Enter the Network Name (SSID) to match your home Wi-Fi device.
Click on the Encryption drop-down box and select mode to match your home Wi-Fi.

Select/Enter the following to match your home’s Wi-Fi device:
- Encryption Type
- Key Type
- Encryption Key
Press the “Next” button.

Verify “Setup Successful”
Press the “Reboot” button
Wait for system reboot.
Close browser.

Connect to your home network.

To repeat the IP address:
Press SHIFT and then INFO on the QRS PNOmation II remote.

Open Safari or Google Chrome and enter the IP address heard from the speaker.
Wi-Fi Configurations

Configure the ASUS WL 330N3G to “Stand Alone” Mode

All systems are shipped in Stand-Alone mode: [1] The PLx Network light is green and [2] you should see “QRSPNO ####” when viewing your local Wi-Fi devices. These instructions are used to reset the PMII and the ASUS wireless to the default configuration.

For best results, go to qrsmusic.com to download and install the latest PMII driver update. Instructions using Driver V3.66.

If the “Power” light is yellow, tap the PLx button once so that the light turns green. Point the remote at the button on the PLx box. The “System” light will flash, w/ voice prompts, on remote control commands. Using a QRS Remote: Press SHIFT then FUNC then 9 9 0.

If you have one of the smaller QRS remotes: press F1/Source then 9 9 0.

The PLx Network light should now be green.

Press and Hold the “Restore’ button, on the back of the ASUS, until the “power” light flashes at least 3 times.

DISCONNECT the Ethernet cable from PMII or the ASUS device.

View the available wireless devices using your iPad, iTouch, Android device or Wireless Computer. If the ASUS was “restored” correctly you should see “ASUS” in your available Wi-Fi devices list.

Connect to the “ASUS” from the list and wait until a connection is established.

Apple devices may automatically open the Authentication screen when connection. Enter admin in the User Name and Password fields.

If you are using an Android or a Computer and Google Chrome:
In your web browser, enter 192.168.1.1 in the URL address window. Enter admin in the User Name and Password fields. Click the Log In button.

The ASUS programming window opens.
Select Access Point.

Enter the “QRSPNO” in the Wireless name (SSID) field. Our example uses QRSPNO Test
Click the APPLY button.

The ASUS will apply, save and restart with the new settings.

Close the browser window when 100% complete.

Reconnect the Ethernet cable.

Wait for the voice prompt to report: “Standby” “Connected” “IP Address is...192.168.1.1”. [Press FUNC INFO to repeat IP address]
You can now wirelessly connect to PNOmation II via the ASUS wireless access point.

Enter 192.168.1.1 in your Internet web browser, Google Chrome or Safari.
Wi-Fi Configurations

**Configure the ASUS WL 330N3G to “Network” Mode**

DISCONNECT the Ethernet cable from PMII or the ASUS device.

*For best results, go to qrsmusic.com. to download and install the latest PMII driver update.* Instructions using Driver V3.66.

If the “Power” light is yellow, tap the PLx button once so that the light turns green.

*Point the remote at the button on the PLx box. The “System” light will flash, w/ voice prompts, on remote control commands.*

Using a QRS Remote: Press **SHIFT** then **FUNC** then **9 9 1**.

*If you have one of the smaller QRS remotes: press F1/Source then 9 9 1.*

The PLx Network light should now be yellow.

Press and Hold the “Restore” button, *on the back of the ASUS*, until the “power” light flashes at least 3 times.

View the available wireless devices using your iPad, iTouch, Android device or Wireless Computer. Connect to the “ASUS” from the list and wait until a connection is established.

Apple devices may automatically open the Authentication screen when connection. Enter **admin** in the User Name and Password fields.

If you are using an Android or a Computer and Google Chrome:

In your web browser, enter 192.168.1.1 in the URL address window. Enter **admin** in the User Name and Password fields.

Click Log In (Apple) or click the OK (Android/Chrome) button.

Programming window opens. Select **Network Adapter**.

Close Help

Select your local wireless Network device from the Site Survey list. Click the **Connect** button.

Enter your Network Key if requires and press Connect.

The ASUS will connect, save and restart with the new settings.

Close the browser window when 100% complete.

Connect your wireless device to your home network.

Reconnect the Ethernet cable

Wait for the voice prompt to report: “Network”...“Connected”...“IP Address is...192.168.1.xxx”.

[FUNC INFO to repeat the IP Address]

Open your web browser and enter the IP address and connect to PNOmation II through your home Network.
Configure the ASUS WL 330gE to “Stand Alone” Mode

All systems are shipped in Stand-Alone mode: [1] The PLx Network light is green and [2] you should see “QRSPNO ####” when viewing your local Wi-Fi devices. These instructions are used to reset the PMII and the ASUS wireless to the default configuration.

For best results, go to qrsmusic.com to download and install the latest PMII driver update. Instructions using Driver V3.66.

If the “Power” light is yellow, tap the PLx button once so that the light turns green. Point the remote at the button on the PLx box. The “System” light will flash, w/ voice prompts, on remote control commands. Using a QRS Remote: Press SHIFT then FUNC then 9 9 0.

If you have one of the smaller QRS remotes: press F1/Source then 9 9 0.

The PLx Network light should now be green.

View the available wireless devices using your iPad, iTouch, Android device or Wireless Computer. If the ASUS was “reset” correctly you should see “ASUS” in your available Wi-Fi devices list. Connect to the “ASUS” from the list and wait until a connection is established.

Open Apple Safari, Android Web Browser or Google Chrome on a Computer:

In your web browser, enter 192.168.1.220 in the URL address window. The “Authentication Required” dialog box will appear. Enter admin in the User Name and Password fields. Click Log In.

The ASUS programming window opens. Select the AP Tab. Enter “QRSPNO” for the SSID name. Click the FINISHED button.

Click OK.

The ASUS will save and restart with the new settings. Wait for the progress to complete, 100%. At this point you will loose connection to the ASUS...

Close the browser window when the progress is 100% complete.

Wait for the voice prompt to report: “Standby”...“Connected”...“IP Address is 192.168.1.1” [FUNC INFO to repeat the IP Address.]

Connect your wireless device to “QRSPNO”.

Open Google Chrome, Safari or your Android browser and enter 92.168.1.1 to connect to PMII.
Wi-Fi Configurations

Configure the ASUS WL 330gE to “Network” Mode

For best results, go to qrsmusic.com. to download and install the latest PMII driver update. Instructions using Driver V3.66.

Press and hold the Reset button on the edge of the ASUS until the power light flashes at least three times.

If the “Power” light is yellow, tap the PLx button once so that the light turns green.

Point the remote at the button on the PLx box. The “System” light will flash, w/ voice prompts, on remote control commands.

Using a QRS Remote: Press SHIFT then FUNC then 9 9 1.
If you have one of the smaller QRS remotes: press F1/Source then 9 9 1.

The PLx Network light should now be yellow.

View the available wireless devices using your iPad, iTouch, Android device or Wireless Computer.
Connect to the “ASUS” from the list and wait until a connection is established.

Open Apple Safari, Android Web Browser or Google Chrome on a Computer:
In your web browser, enter 192.168.1.220 in the URL address window.
The “Authentication Required” dialog box will appear.
Enter admin in the User Name and Password fields.
Click Log In.

The ASUS programming window opens.
Click on the Adapter tab.

In the Available Network List , click on the radio button for your local network.
Our example shows ASUS QRS AP.

Click the Connect button.
You may need to provide a password to your network.
Use the “Add” button if your local network is hidden.

Enter the password of your home router if required.

This yellow message box will appear.
Click OK

The ASUS will save and restart with the new settings
Wait for the Progress to complete.
At this point you will loose connection to the ASUS...
Close the browser window when the progress is 100% complete.
Wait for the voice prompt to report the new IP Address from your network: “Network”...“Connected”...“IP Address xxx.
[FUNCTION INFO to repeat the IP Address]

Connect your wireless device to home router.

Open Google Chrome, Safari or your Android browser and enter IP Address that was reported to connect to PMII.
Wi-Fi Configurations

Configure the TRENDnet to “Stand Alone” Mode

The Trendnet does NOT support Network Mode

If you wish to set up PMII in Network Mode please call the number at the bottom of the page and we will replace the TRENDnet with an ASUS wireless unit.

Flip the switch on the back of the TRENDnet to AP
Log In to the TRENDnet TEW-654TR Wireless Router
192.168.10.1
User Name = admin
Password = admin

Verify that the Firmware Version is 1.10.12

If the version is not 1.10.12 or higher call QRS Technical Support

Select: Setup / Wireless

Change the Wireless Network Name to QRSPNO #
This is the name that will appear when you view the available wireless networks. It can be any name that you wish.

Click the “Apply” button and wait...

Click the “Back” button when the data is successfully saved.

Select: Setup / WPS “Wi-Fi Protection Settings”

Click to uncheck “Enable to disable the protection”

Click the “Apply” button and wait...

Click the “Back” button to save settings.

Select: Setup / LAN

Select “Static IP” in the “My LAN Connection is: drop-down box.
Change the Device Name to QRSPNOAP
Change the IP Address to 192.168.1.220
Change the Gateway to 192.168.1.1
Change the Primary DNS to 192.168.1.1

Click the “Apply” button and wait...

Click the “Back” button to save settings.

This will disconnect you from the Wi-Fi device.

Use 192.168.1.220 if you need to log in to the TRENDnet setup again.

Reconnect the TrendNet to PMII
You can now log on to PMII 192.168.1.1
Verify that PMII, and the speaker are ON:

The first PLx light should be green. If it's yellow, press the PLx button or "Power On"

**Change PMII to Network Mode**

From an iPod/Touch, iPhone or iPad Go to...
System Setup/ Other Setups / Network Settings
Turn OFF  DHCP Server Enable (Standalone)
Turn ON  Static IP(on) or DHCP Client(on)
Press the Apply Changes Button
Press Yes again to confirm.

From a QRS Remote Control
Press the following buttons in sequence…
Big Remote:  SHIFT  FUNC  9  9  1
Small Remote:  F1/Source  9  9  1
Third light flashes red/green and then solid yellow

You will be **Disconnected** from PMII

QRS has pre-programmed the TP-Link Set:
1] QRS AP [Access Point]
2] “Client” Connected to [QRS AP]

**Piano**
Remove the existing Wi-Fi device and connect:

**Home Router**
Connect 1] QRS AP [Access Point] to your home router.

Within a few minutes the IP address that has been assigned to the piano will be announced over the speaker.

You can repeat the IP announcement using the remote:
Big Remote:  SHIFT  3
Small Remote:  F1/Source  9  9  2

Connect your device (iPod/Touch, iPhone, iPad, or Android) to your home network.

Open your internet browser; Safari, Google Chrome or the Android Globe.
In the address window, enter the IP address announced over the speaker.
You may also use qrspno.local

You can also use one of the TP-Link units for Stand Alone.

Connect 1] QRS AP [Access Point] to the piano. The second TP-Link is not used.

Press the following buttons in sequence…
Big Remote:  SHIFT  FUNC  9  9  0
Small Remote:  F1/Source  9  9  0
Third light flashes red/green and then solid green

Connect your device to the QRS AP
Open your web browser and enter 192.168.1.1
Wi-Fi Configurations

How to Configure the Apple AirPort Express for PMII in “Stand Alone” Mode [MacBook Example]

Begin by putting the PMII in Stand Alone Mode. Third PLx light is green.

In this example we began after resetting the AirPort Express to factory defaults. Press and hold the reset button for 10 seconds. Wait for the AirPort to reboot.

Establish a wireless connection to the AirPort.

Open the AirPort Utility and press “Edit”.

Base Station
Did not change after reset.

Internet
Connect Using DHCP
DNS servers: 192.168.1.1
Did not change after reset.

Internet / Select “Internet Options”
Configure IPv6: “Link-local only”

Wireless

Network
Select Router Mode: “Off (Bridge Mode)”

Press “Update” after making changes.

I noticed that after resetting the AirPort to factory defaults that I could still connect to PMII but the AirPort’s status light was amber. After changing the Network’s Router Mode to “Off (Bridge Mode)”, setting a security password and Updating the status light turned green.
Troubleshooting & Service

Testing the system from the PLx box.

When the first light is yellow and the second is green, the system is in standby mode. The PMII processor is ready but the power to the key solenoids is off.

Press the PLx button once to turn the first light green, which turns on the power to the key solenoids. Pressing the button now will play the piano. Pressing the button again will stop play.

If the first two or more lights are yellow, the system has shut down.

Unplug the AC power cord from the wall outlet... Wait two minutes and then reconnect.

No Music

Shutdown / Unplug from AC wall outlet / Reinsert SD card / Reconnect to power.

---

PMII Light Patterns and Button Functions

<table>
<thead>
<tr>
<th></th>
<th>2 Blinks / sec</th>
<th>Idle</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Blink</td>
<td>Blinks with MIDI data. Piano should be playing.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>1 Wink / sec</th>
<th>Solid</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Rapid Blinking</td>
<td>Idle</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Indexing Music</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Updating Driver</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>1 Blink / sec</th>
<th>Network Mode = Network with Connection</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Solid</td>
<td>Network Mode = Stand Alone with Connection</td>
</tr>
<tr>
<td></td>
<td>Off</td>
<td>Network Mode = No Connection</td>
</tr>
</tbody>
</table>

Hold down for just 4 seconds to change Network Mode.
- Stand Alone
- Network
- OFF

Hold down for 8 seconds to power OFF PMII.
- Tap again to reboot.
**View Settings:** Lists the Current and Default Values for the following items:

- **Volume**
- **Solenoid**
- **Keyboard**
- **Power Supply**
- **MIDI**
- **Network**
- **DRM**
- **Pedal**
- **PNOscan**
- **Record**
- **USB Drive**
- **Velocity Map**

### Volume Settings

<table>
<thead>
<tr>
<th>Parameter Name</th>
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  - Supply Current: 0.09A
  - Current Limit: 0.200A
  - Pedal Current: 0.09A
  - Pedal Limit: 0.300A
  - CPU Voltage: 0.00
  - Logic Voltage: 5.575V

### System Log

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### Debug

**AUTHENTICATION REQUIRED**

Please Enter a Password to View This Page

Password: [blank]

Submit
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<th>Complimentary Song List [319 Total]</th>
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<tr>
<td>A Beautiful Friendship</td>
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<td>A Christmas Love Song</td>
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<td>A Curious Story (Kinderscenen, Op 15)</td>
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<td>A Holly Jolly Christmas</td>
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<td>A Night At The Opera</td>
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<td>About Strange Lands And People</td>
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<tr>
<td>(Kinderscenen, Op 15)</td>
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<td>Adagio, from Sonata in C, Op 3 No 3</td>
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<td>Addams Family Theme</td>
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<td>Afternoon Delight</td>
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<td>Against All Odds</td>
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<td>Ain't Misbehavin'</td>
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<td>All I Do Is Dream Of You</td>
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<td>Allegro con brio, from Sonata in C, Op 3 No 3</td>
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<td>Allegro, from Sonata in G, K283</td>
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<td>Always On My Mind</td>
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<td>Arabesque No 1 (Debussy)</td>
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<td>As Long As He Needs Me</td>
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<td>At A Georgia Camp-Meeting</td>
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<td>Autumn In New York</td>
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<td>Ave Maria (Schubert/Liszt)</td>
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<td>Baby Medley</td>
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<td>Bacharach Medley</td>
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# Complimentary Song List

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<th>Paganini Etude No. 3 (La Campanella)</th>
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<td>Lazy Bones</td>
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<td>Le Chemin de Fer (Alkan)</td>
<td>Pizzicato Polka</td>
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<td>Please Be Kind</td>
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<td>Les Misérables</td>
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<td>Liebesleid (Kreisler/Rachmaninov)</td>
<td>Polonaise in A-flat, Op 53 (Chopin)</td>
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<td>Liebestraum No. 3 (Liszt)</td>
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<td>Lookin’ For Love</td>
<td>Prelude No 10 in E Minor (Bach/Siloti)</td>
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<td>Love And Marriage</td>
<td>Presto, Concert Piece No. 2 in D Minor</td>
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<td>Love Letters</td>
<td>(Mendelssohn)</td>
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<td>What The World Needs Now</td>
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<td>When My Baby Smiles At Me</td>
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<td>Where Everybody Knows Your Name (Cheers)</td>
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<td>Wonderful Words Of Life</td>
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<td>You Light Up My Life</td>
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<td>Young At Heart</td>
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<td>Zing Went The Strings Of My Heart</td>
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PNOmation II® Update/Upgrade Package
ELECTRONICS LIMITED WARRANTY

QRS Music Technologies, Inc. ("QRS") warrants to you for the Warranty Period that there are no defects in the materials of this Product (as identified at the end of this warranty certificate). The "Warranty Period" expires (except as explained below) Two (2) years from the date of your purchase of the Product. In order to determine the date of your purchase of the Product, you will need to provide to us a credit card receipt, a purchase agreement, a sales slip, a warranty registration or some other form of proof that you are the original purchaser and the date of your purchase of the Product.

If you are not able to provide us with some form of proof of purchase date, the Warranty Period will be a shorter period (the "Shorter Warranty Period") which is two years from the date that your dealer purchased the Product from QRS. If you cannot provide a proof of purchase date, you may contact us in the manner described below and we will assist you in determining the date that your dealer purchased the Product from us and determining the Shorter Warranty Period. This is a warranty for parts only and does not include shipping or labor.

This warranty does not apply to any accessories you may have purchased with the Product and does not apply to any piano or components of the piano with which the Product is used or any Piano in which the Product is installed. In addition, this warranty does not cover scratches, dents or other defects in the cosmetic finish of the Product.

The warranty is issued solely to the original purchaser of the Product. THIS WARRANTY IS NOT TRANSFERABLE. If, during the Warranty Period, parts incorporated in this Product are found to be defective in material or workmanship, and the original purchaser provides Purchase Documents to QRS, then QRS or its authorized dealer will provide replacement parts without charge. We may, at our discretion, provide reconditioned parts or assemblies as warranty replacements. You as the original purchaser will be responsible to pay labor costs incurred in connection with any repair.

LIMITATION IN CONNECTION WITH OBSOLETE PRODUCTS

If at the time you make a claim pursuant to this warranty, we no longer manufacture or sell the same model of Product, we may, at our discretion, rather than repair or replace defective parts in the Product, offer to sell you a more current version of a similar Product. If we offer to sell you a more current model of the Product, you will be responsible to pay the difference between the Manufacturer’s Suggested Retail Price ("MSRP") of the more current version of a similar Product and the price you paid for the Product you purchased. If you choose not to accept such offer, we will have no further obligations pursuant to this warranty.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, MADE BY THE MANUFACTURER IN CONNECTION WITH THIS PRODUCT, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ALLOWED BY THE LAW, QRS SHALL NOT BE RESPONSIBLE FOR LOSS OF THE PRODUCT, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, SPECIAL OR CONSEQUENTIAL DAMAGES, EVEN IF THE MANUFACTURER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

This warranty gives you specific legal rights. Some states provide other rights, and some states do not allow excluding or limiting liability for incidental or consequential damage. Consequently, the limitations and exclusions in this warranty may not apply to you. In addition, some jurisdictions have consumer protection rules, regulations and statutes that may apply to you.
Exclusions
There is no express warranty on the Product and this warranty is void if:
1. You did not purchase this Product from an authorized QRS reseller.
2. This Product has been serviced, modified or tampered with by anyone other than an QRS Authorized Service Representative.
3. The name, trademark or serial number has been modified, defaced or removed from the product.
4. This Product has been damaged as a result of abuse, abnormal force or strain, failure to reasonably maintain and protect, modification, accident or exposure to extreme temperature or humidity.
5. Parts, supplies or other accessories which have not been approved by QRS have been used with this Product.
6. Radio frequency interference is generated by uncertified and/or illegal equipment.
7. This Product has been moved or delivered without reasonable preparation and packaging or
8. QRS reasonably determines, after inspection that there has been modification of this Product which adversely affects the reliability of the product or component.
9. Replacement of the SD card and its contents.

Owner’s Responsibility
In order to have rights under this warranty, you have the following responsibilities:
1. Retain your proof of purchase and purchase date and register your product either online at qrsmusic.com or send in your Warranty Registration Card.
2. Notify QRS or any authorized dealer of any warranty claim within ten (10) days after discovery and provide a detailed explanation of the problem.
3. Maintain current content and software updates - (best achieved by placing your system on a secure network).

General
If any provision herein shall be unlawful, void or for any reason unenforceable, then that provision shall be deemed severable from this warranty certificate and shall not affect the validity of and enforceability of the remaining provisions.

QRS reserves the right to make changes in design and/or improvements to its products without any obligation to retrofit products previously manufactured.

INSTRUCTIONS FOR OBTAINING WARRANTY SERVICE
1. If you cannot provide proof of purchase, contact QRS at 800-247-6557 and we will attempt to determine the date on which your dealer purchased the Product and assist you in determining the Shorter Warranty Period. For warranty service, contact the dealer from whom you purchased the product, or your nearest dealer.
2. If no dealer is near you, contact QRS by phone at 800-247-6557.
3. Do not ship the product without prior written Return Authorization from QRS. Do not attempt to repair or disassemble the product yourself.
4. Please record your model number and serial number and your date of purchase below for your records. Keep this information with your proof of purchase in case your product requires service. Do not dispose of the warranty after it expires. In the event your product ever requires service, these instructions should be helpful in enabling you to obtain proper service.

Product Model #____________________ Product Serial #____________________ Purchase Date____________________