

# NUVŌ<sup>®</sup>

Whole Home Audio



## NV-MPS4 Music Port

## Installation Guide



## Precautions

For U.S. Models

Note to CATV system installer:

This reminder is provided to call the CATV system installer's attention to Section 820-40 of the NEC, which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding systems of the building, as close to the point of cable entry as practical.

FCC Information for the User

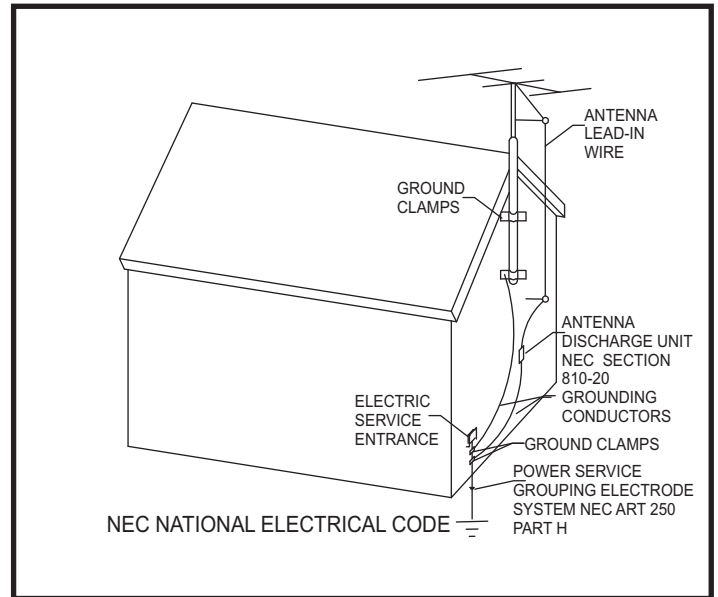
Caution:

Changes or modifications by the user that are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE:

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These Limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will occur in a particular Installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- 1) Reorient or relocate the receiving antenna.
- 2) Increase the separation between the equipment and the receiver.
- 3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- 4) Consult the dealer or an experienced radio/TV technician for help.



### SAFETY NOTE:

**Where the MAINS plug or appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable**

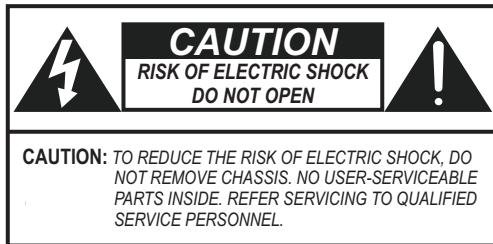
# ENGLISH

## Danger

Exposure to extremely high noise levels may cause a permanent hearing loss. Individuals vary considerably to noise induced hearing loss but nearly everyone will lose some hearing if exposed to sufficiently intense noise for a sufficient time. The U.S. Government's Occupational Safety and Health Administration (OSHA) has specified the following permissible noise level exposures:

DURATION PER DAY (HOURS)	8	6	4	3	2	1
SOUND LEVEL (dB)	90	93	95	97	100	103

According to OSHA, any exposure in the above permissible limits could result in some hearing loss. Ear plugs or protectors in the ear canal or over the ears must be worn when operating this amplification system in order to prevent a permanent hearing loss. If exposure in excess of the limits as put forth above, to insure against potentially harmful exposure to high sound pressure levels, it is recommended that all persons exposed to equipment capable of inducing high sound pressure levels, such as this amplification system, be protected by hearing protectors while this unit is in operation.



**AVIS: RISQUE DE CHOC ELECTRIQUE-NE PAS OUVRIR.**



THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF NON-INSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.




THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE UNIT.



APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

## IMPORTANT SAFETY INSTRUCTIONS

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be kept for future reference.
3. Read and understand all warnings listed on the operating instructions.
4. Follow all operating instructions to operate this product.
5. This product should not be used near water, i.e. bathtub, sink, swimming pool, wet basement, etc.
6. Only use dry cloth to clean this product.
7. Do not block any ventilation openings, It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
8. Do not install this product near any heat sources ; such as, radiators, heat registers, stove or other apparatus (including heat producing amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus. Do not break the ground pin of the power supply cord.
11. Only use attachments specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus. When a cart is used, use caution when moving cart/apparatus combination to avoid injury from tip-over.
 
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Care should be taken so that objects do not fall and liquids are not spilled into the unit through the ventilation ports or any other openings.
15. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way; such as, power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally or has been dropped.
16. **WARNING:** To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

## FRENCH

### Danger

L'exposition a des niveaux eleves de bruit peut provoquer une perte permanente de l'audition, Chaque organisme humain reagit differemment quant a la perte de l'audition, mais quasiment tout le monde subit une diminution de l'acuite auditive lors d'une exposition suffisamment longue au bruit intense. Les autorites competentes en reglementation de bruit ont defini les expositions tolerees aux niveaux de bruits:

DURE EN HEURES PAR JOUR	8	6	4	3	2	1
INIVEAU SONORE CONTINU EN dB	90	93	95	97	100	103

Selon les autorites, toute exposition dans les limites citees ci-dessus, peuvent provoquer certaines pertes d'audition. Des bouchons ou protections dans l'appareil auditif ou sur l'oreille doivent etre portes lors de l'utilisation de ce systeme d'amplification afin de prevenir le risque de perte permanente de l'audition, Dans le cas d'expositions superieures aux limites precitees il est recommande, afin de se premunir contre les expositions aux pressions acoustiques l'evees potentiellement dangeure u ses, aux personnes exposees aux equipements capables de delivrer de telles puissances, tels ce systeme d'amplification en fonctionnement, de proteger l'appareil auditif.



CE SYMBOLE A POUR BUT D'AVERTIR L'UTILISATEUR DE LA PRESENCE DE VOLTAGE DANGEREUX NON-ISOLE A L'INTERIEUR DE CE PRODUIT QUI PEUT ETRE DE PUISSANCE SUFFISAMMENT IMPORTANTE POUR PROVOQUER UN CHOC ELECTRIQUE AUX PERSONNES.



CE SYMBOLE A POUR BUT D'AVERTIR L'UTILISATEUR DE LA PRESENCE D'INSTRUCTIONS D'UTILISATION ET DE MAINTENANCE DANS LES DOCUMENTS FOURNIS AVEC CE PRODUIT.



AFIN DE REDUIRE LES RISQUÉ D'INCENDIE ET DE DECHARGE ELECTRIQUE, NE PAS EXPOSER CET APPAREIL A LA PLUIE OU A L'HUMIDITE.

### IMPORTANTES INSTRUCTIONS DE SECURITE

1. Lire avec attention toutes les recommandations et précautions d'emploi avant d'utiliser ce produit.
2. Toutes les recommandations et précautions d'emploi doivent être conservées afin de pouvoir s'y reporter si nécessaire.
3. Lire et comprendre tous les avertissements énumérés dans les précautions d'emploi.
4. Suivre toutes les précautions d'emploi pour utiliser ce produit.
5. Ce produit ne doit pas être utilisé près d'eau, comme par exemple baignoires, éviers, piscine, sous-sol humides ... Etc.
6. Utiliser exclusivement un chiffon sec pour nettoyer ce produit.
7. Ne bloquer aucune ouverture de ventilation. Ne pas placer le produit tout contre un mur ou dans une enceinte fermée, cela gênerait le flux d'air nécessaire au refroidissement.
8. Ne pas placer le produit près de toute source de chaleur telle que radiateurs, arrivées d'air chaud, fourneaux ou autres appareils générant de la chaleur (incluant les amplificateurs producteurs de chaleur) .
9. Ne pas négliger la sécurité que procure un branchement polarisé ou avec raccordement à la terre, Un branchement polarisé comprend deux fiches dont l'une est plus large que l'autre. Un branchement à la terre comprend deux fiches plus une troisième reliée à la terre. Si la fiche secteur fournie ne s'insert pas dans votre prise de courant. consulter un l'électricien afin de remplacer votre prise obsolète.
10. Protéger le cordon d'alimentation de tout écrasement ou pincement, particulièrement au niveau des fiches, des réceptacles utilisés et à l'endroit de sortie de l'appareil. Ne pas casser la fiche de terre du cordon d'alimentation.
11. Utiliser uniquement les accessoires spécifiés par le constructeur.
12. Utiliser uniquement avec le chariot de transport, le support, le trépied, la console ou la table spécifiés par le constructeur ou vendus avec l'appareil. Lors de l'utilisation d'un chariot, bouger avec précaution l'ensemble chariotlappareil afin d'éviter les dommages d'un renversement.
13. Débrancher cet appareil lors d'orages ou s'il n'est pas utilisé pendant une longue période.
14. Des précautions doivent être prises afin qu'aucun objet ne tombe et qu'aucun liquide ne se répande à l'intérieur de l'appareil par les orifics de ventilation ou n'importe quelle autre ouverture.
15. Pour toutes interventions techniques s'adresser à un technicien qualifié.L'intervention technique est nécessaire lorsque l'appareil a été endommagé de n'importe quelle façon, comme par exemple si le cordon secteur ou sa fiche sont détériorés, si du liquide a coulé ou si des objets sont tombés à l'intérieur de l'appareil, si l'appareil a été exposé à la pluie ou à l'humidité, s'il ne fonctionne pas normalement ou s'il est tombé.
16. ATTENTION: Pour réduire le risque d'incendie ou de choc électrique ne pas exposer l'appareil à la pluie ou à l'humidité.

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## NV-MPS4 Package Contents

<u>SKU</u>	<u>Description</u>	<u>Quantity</u>
NV-NV-MPS4	Music Port	1
NV-REM1U	Single space rack ear mounts	1
NV-RCA1	Stereo RCA audio cables	4
NV-RS232	6 ft. 9 pin serial cable	1
NV-NC1	10 ft. black network cable	1
NV-NC10W	10 ft. white network cable	1
NV-PC2-NA	Power cable, 2 wire, North America	1

## Introduction

The NV-NV-MPS4, or Music Port, is designed to fully communicate with the NuVo Essentia, Grand Concerto and Renovia Distributed Audio Systems through its NuVoNet communication protocol. Properly installing the Music Port as a source component will provide full browsing to all of your personal music (both through iTunes and Media Player) as well as online Internet radio.

Whether across the Web or from its internal 320 GB hard drive, the Music Port gives you full metadata feedback from any of the NuVo Control Pads, and when it is controlled through the new NV-CTP36 Touch Pad controller, you will even enjoy full color album art.

Through the Music Port, its whatever source you want it to be.

## NV-NV-MPS4 Music Port Wiring Diagram

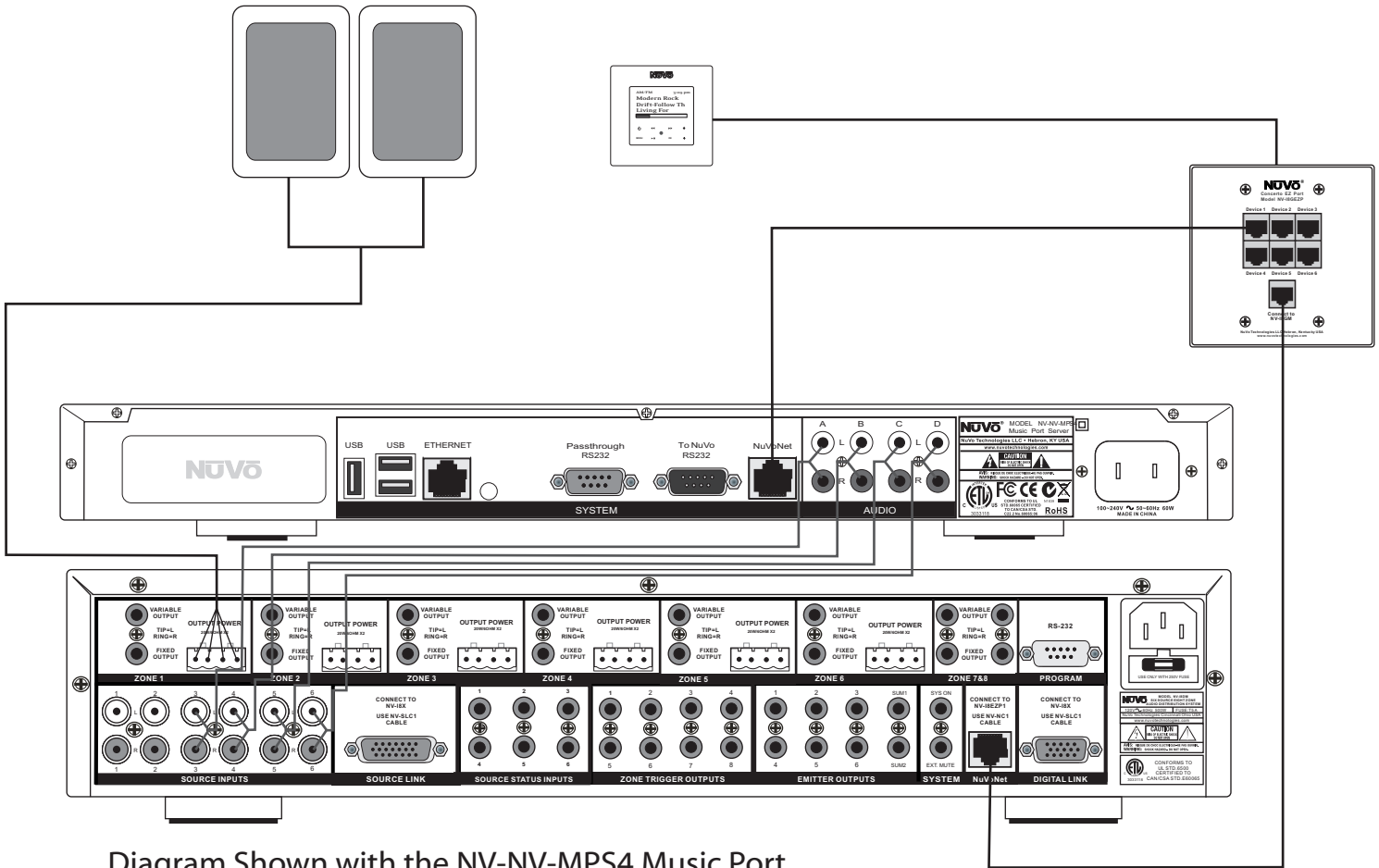
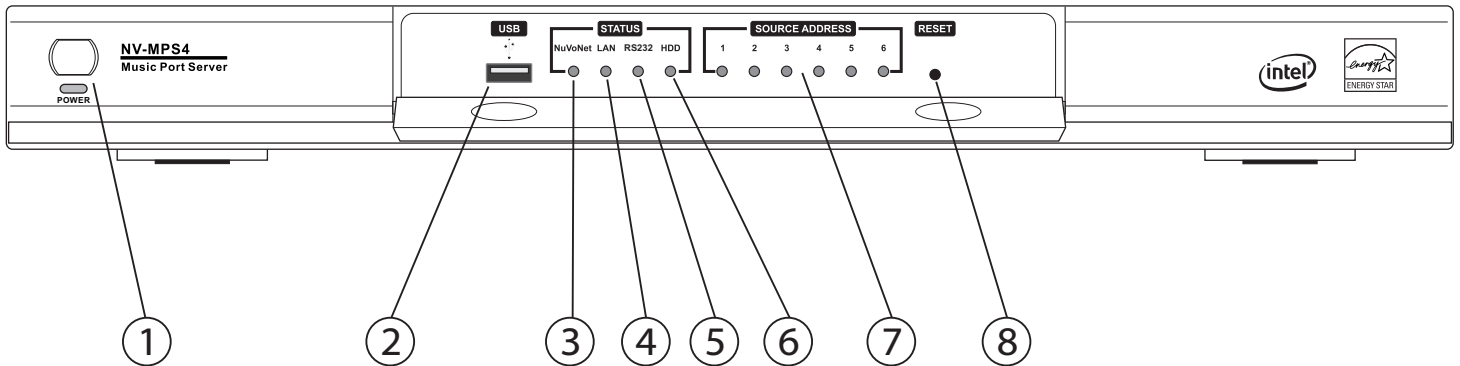


Diagram Shown with the NV-NV-MPS4 Music Port connected to the Grand Concerto System.

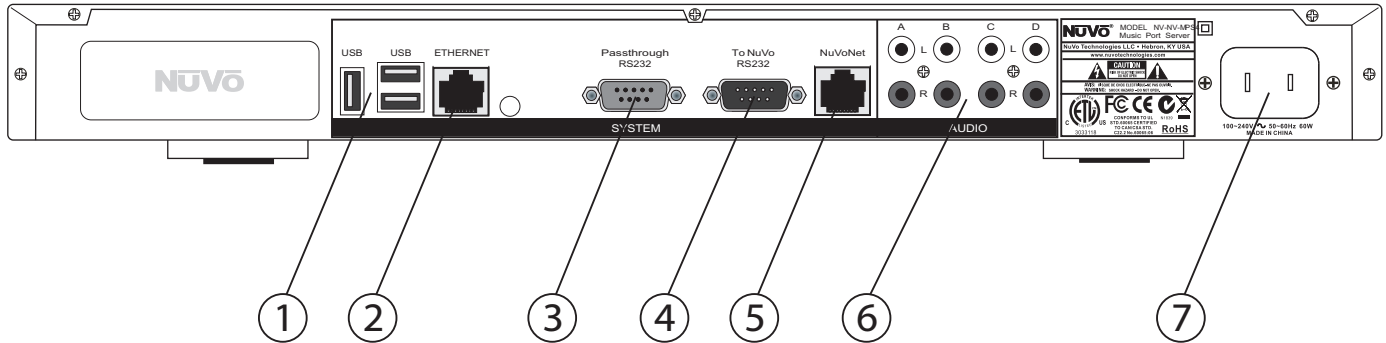




### NV-NV-MPS4 Music Port Front Panel Features

1. **Power:** This button supplies power to the Music Port when the unit is plugged into an AC power source and the button is pushed. The associated blue LED will light.
2. **USB Port:** This USB port allows the Music Port to see and stream audio content from attached drives. This feature will be available on a future release.
3. **NuVoNet Error LED:** The Music Port is designed to communicate via a CAT5 cable to the NuVo Essentia, Grand Concerto, and Renovia Distributed Audio Systems. This red LED is designed to light indicating a lack of communication. With normal communication, it will remain unlit.
4. **LAN Error LED :** This red LED will light when there is no Local Area Network signal present at the RJ45 Ethernet port on the Music Port back panel, or when there is an interruption in the LAN signal. See page 8, **Understanding the LAN Error LED**, for a detailed description of the different error states. In normal operation it will remain unlit.
5. **RS232 Error LED:** This red LED will light when the Music Port does not detect a serial connection at its DB9 output on the back panel. When a serial connection is present and active, the LED will remain unlit.
6. **HDD Status LED:** This green LED will light when the Music Port's hard drive is active.
7. **Source Address LED's:** These green LED's 1 - 6 will light indicating the assigned source inputs on the associated NuVo Distributed Audio System.
8. **Reset Button:** This recessed button will reset the Music Port's operating system when it is pushed.





### NV-NV-MPS4 Music Port Back Panel Features

1. **USB Ports:** Three USB ports allow the Music Port to see and stream audio content from attached drives. This feature will be available in a future release.
2. **Ethernet:** This RJ45 port allows the Music Port to connect to the home's network. This enables the music files on the home's network to be shared on the Music Port's hard drive and the streaming of online Pandora, RadioTime™, SIRIUS and XM Internet radio stations.
3. **Passthrough RS232:** The NuVo distributed audio systems are capable of being controlled serially by a third party home automation system. This DB9 input is designed to pass incoming serial commands through to the adjacent RS232 output. This allows both Client interface control from network computers of the attached NuVo audio system, and third party serial control of the same NuVo system.
4. **NuVo RS232 :** This DB9 port connects to the attached NuVo distributed audio system. This allows any computer on the home's network to operate the Client interface for control of audio zones, source selection, and access to the music library. It also works with the adjacent Passthrough RS232 port to send control commands from a third party home automation system to the attached NuVo audio system.
5. **NuVoNet:** This RJ45 port connects to the attached NuVo distributed audio system and allows full source metadata display and control from the NuVo system Control Pads.
6. **Audio Outputs:** The Music Port has four independent stereo RCA audio outputs that allow its audio streaming content and stored music file audio signal to be sent to any audio distribution system or amplifier.
7. **AC Power:** A standard detachable IEC power cord supplies power to the NV-NV-MPS4. A switching power supply allows the Music Port to operate worldwide at any voltage.

**I. Installing the NV-MPS4 as Part of a NuVo Distributed Audio System**

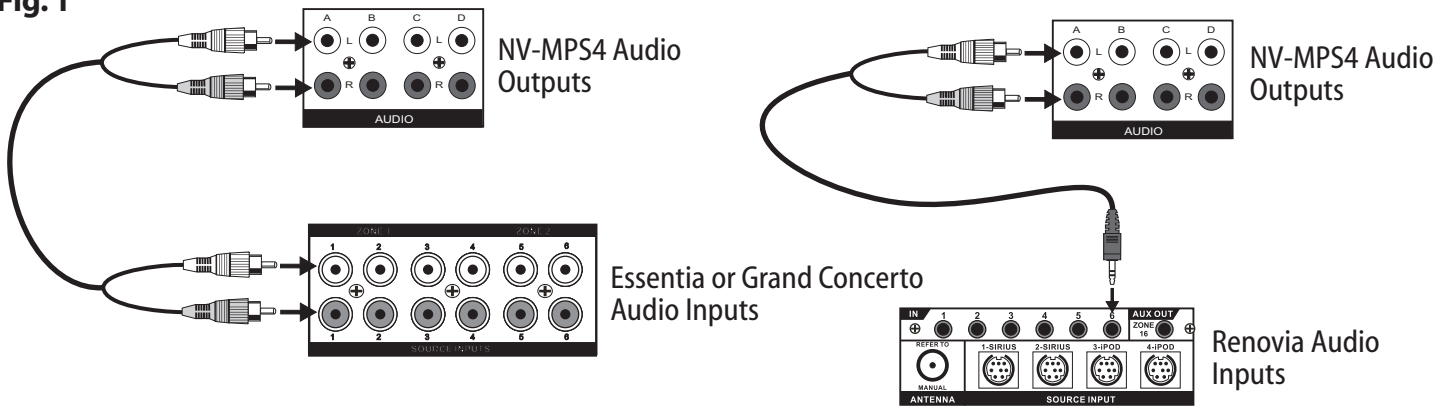
The NV-MPS4 will fully communicate as a NuVoNet audio component with a few simple connections. Locate the NV-MPS4 component with the main component of the NuVo Distributed Audio System. Make all the connections first and plug it into an AC power source and press the Power button on the front panel. The NV-MPS4 operating system will automatically boot up. You will see considerable activity on the “HDD” hard drive status LED on the front panel during this process. This will take approximately 60 seconds.

**Audio Outputs**

There are four independent audio outputs available to the NuVo System. These will be addressed through the Remote Configuration tool, see **II. Setting Up the NV-MPS4 Through the Remote Configuration Tool**, page, 10 .

Connect the audio outputs from the NV-MPS4 to the desired audio inputs on the Essentia, Grand Concerto or Renovia System using standard stereo RCA cables (four are supplied with the NV-MPS4 package) or if you are connecting to the Renovia System, use stereo RCA to stereo mini 3.5 mm cables, Fig. 1.

**Fig. 1**

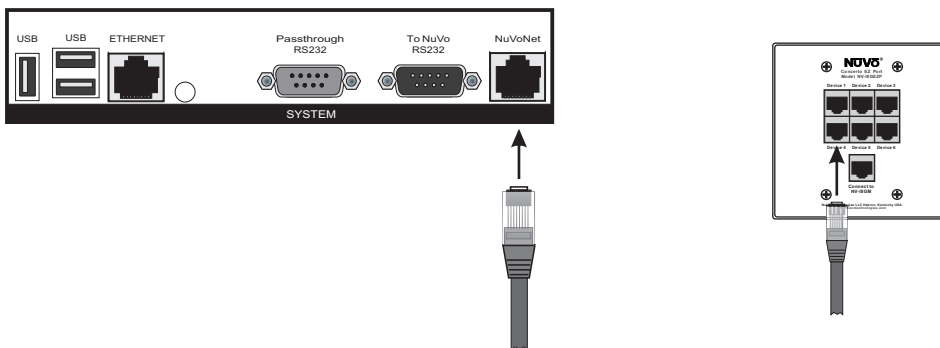


**NuVoNet Connection**

Full communication with the NuVo Distributed Audio Systems is provided through a single CAT5 connection. This requires a standard network CAT5 cable (one is provided in the NV-MPS4 package).

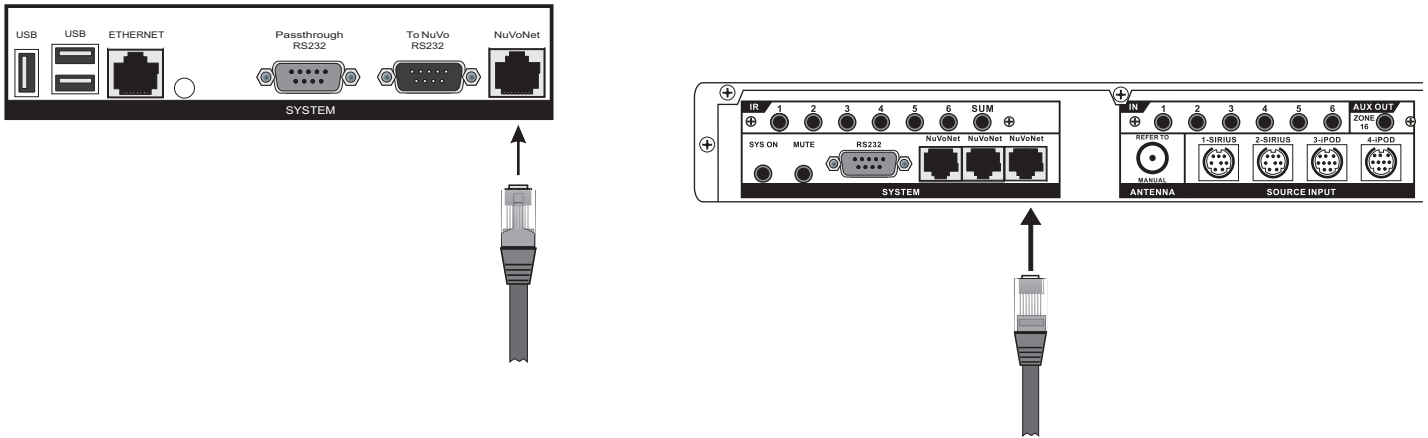
To make this connection to the Essentia or Grand Concerto Systems, plug the CAT5 into the “NuVoNet” RJ45 output on the NV-MPS4 back panel and into one of the “Device” inputs on the Essentia Allport or the Grand Concerto EZ Port. Connect another CAT5 from the Allport or EZ Port “NuVoNet” output to the input on the NuVo Distributed Audio System, Fig. 2.

**Fig. 2**



If you are installing the Music Port with a Renovia System, plug the CAT5 directly into one of the three “NuVoNet” inputs on the back panel of the Renovia Source Hub, Fig. 3.

**Fig. 3**

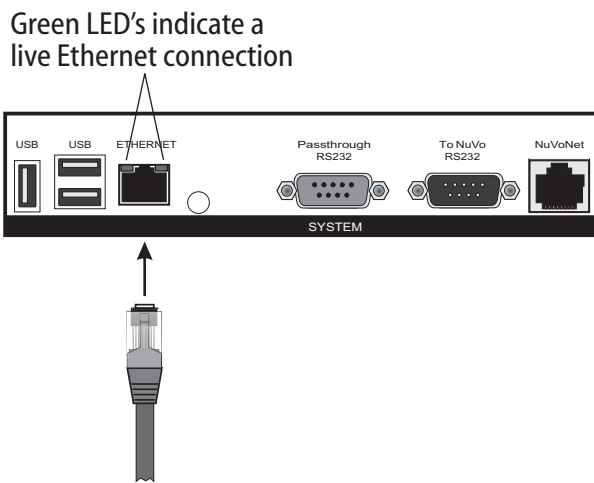


## II. Accessing the Remote Configuration Tool

The Remote Configuration Tool is a quick, easy setup for the operation of the Music Port. Once configured, it will be fully operational with any of the NuVoNet Audio Distribution Systems.

Make sure the NV-MPS4 is plugged in, powered on, and connected to the home’s router through its “Ethernet” port. A live Internet connection will cause the port LED’s to light green, Fig. 4. It is suggested that you use the white CAT5 cable for this purpose to avoid confusing it with the NuVoNet cables.

**Fig. 4**



### Understanding the LAN Error LED

The front panel of the NV-MPS4 has a red LED designed to alert you to communication issues across its network, Fig. 5. The state of the LED indicates the nature of the problem.

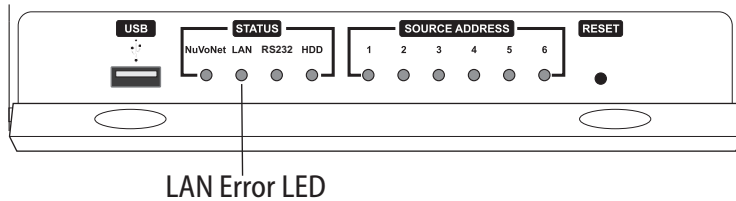
**LED not lit:** This indicates good communication. No problem is found.

**LED solid red:** A cable connection at the "Ethernet" port on the back panel is not detected.

**LED blinking twice:** There is no WAN, Wide Area Network detected or no Internet connectivity.

**LED blinking three times:** This is no LAN, Local Area Network detected.

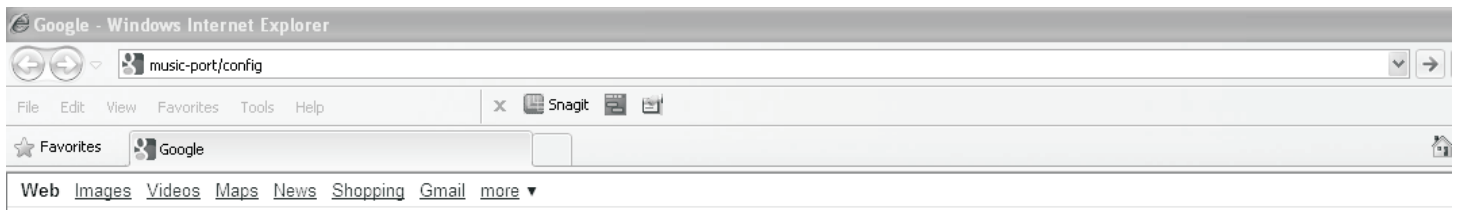
**Fig. 5**



### Accessing the Remote Configuration Tool from the Local Area Network

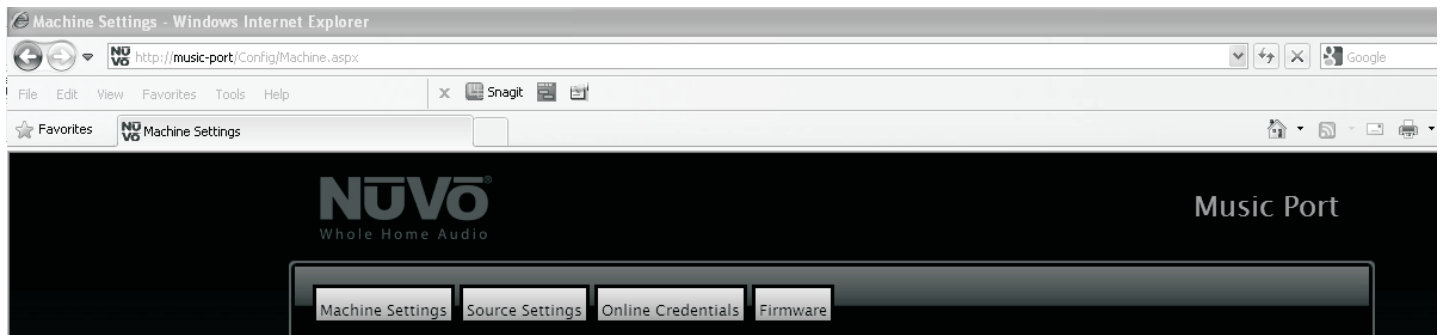
Go to your computer and make sure it is connected to the same network as the NV-MPS4 (this is usually a wireless connection). Open an Internet browser window and type the default name, **music-port/config** in the address bar, Fig. 5.

**Fig. 5**



This should open the Remote Configuration Tool, Fig. 6.

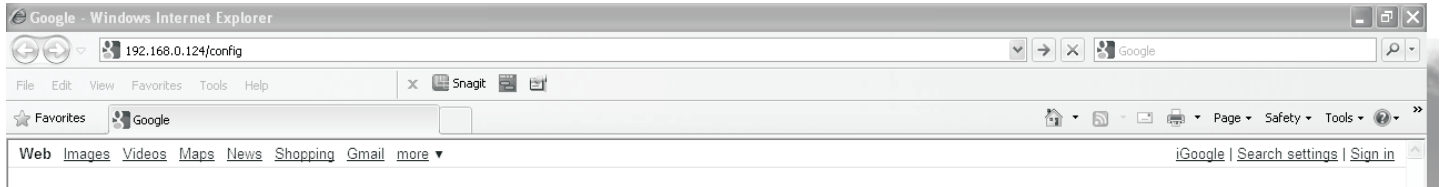
**Fig. 6**



### Finding the IP Address for the NV-MPS4

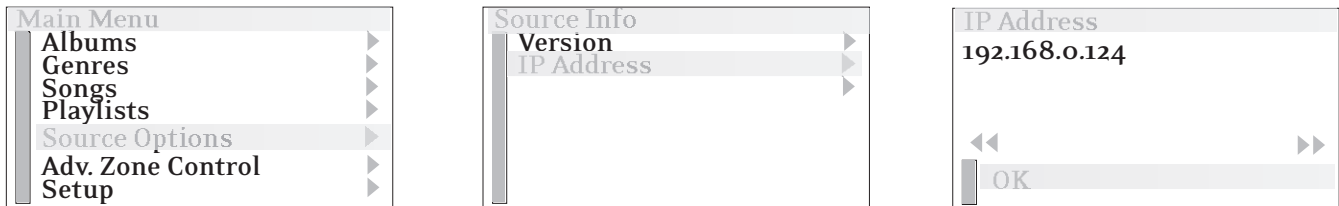
If the “music-port” name does not connect, you can look up the IP address assigned to the Music Port and type that into the browser address bar, i.e.. **192.168.0.124/config**, Fig. 7.

**Fig. 7**



To find the address, go to the Menu of a Control Pad in the System. Choose one of the Music Port outputs from a Control Pad. In the Menu, go to “Source Options” and then select “Source Info.” You will then see the selection “IP Address.” Highlight it and press the “OK” button. This will display the Music Port’s IP address, Fig. 8.

**Fig. 8**



Another alternative is to open the Music Port Sync Tool to discover the NV-NV-MPS4. The IP address will appear in the “Summary” Tab (note that the Sync Tool must be loaded on your computer), Fig. 9, see section **IV. Loading and Using the Music Port Sync Tool.**

**Fig. 9**



### III. Setting Up the NV-NV-MPS4 through the Remote Configuration Tool

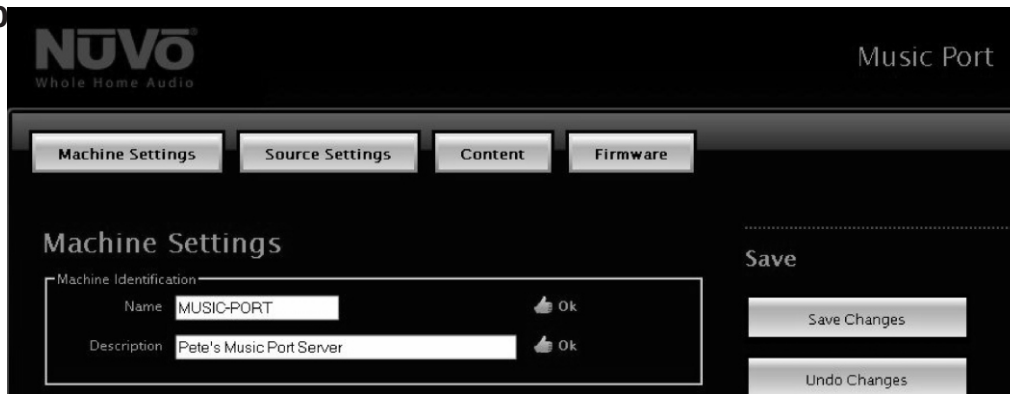
Once you have opened the Remote Configuration Tool, setup of the Music Port is easy.

#### Machine Settings

The first tab of the setup utility is Machine Settings. The choices to note here are the Name Identification, time zone settings, for monitoring the correct time from the web, and a choice of automatically configuring the NV-MPS4 on the home's network or assigning a static IP address.

**Machine Identification:** This is an option of renaming the Music Port from its default, "music-port". This is the name that will be used to access the server on the network and with the Music Port Client and Music Port Sync Tool, see section IV. Loading and Using the Music Port Sync Tool, page 14, Fig. 10.

Fig. 10



**Date and Time:** This section allows you to specify a time zone and online server for monitoring the current time from the Web. If you check the box, "Synchronize NuVo amplifier's clock" it will automatically update the time on the attached NuVo Distributed Audio System, Fig. 11.

Fig. 11

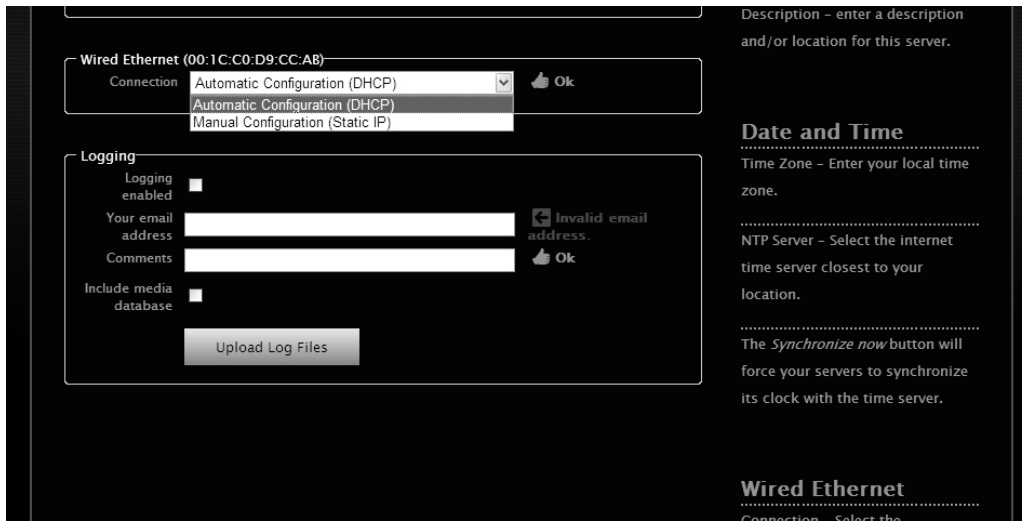


**Wired Ethernet:** The default is to let the network automatically supply an address to the Music Port when is connected through the “Ethernet” port. If you choose, you can assign a static address using this drop-down menu, Fig. 12.

**Logging:** This section is for technical support. If instructed to do so by a technical support person, you can upload log files to NuVo Technical support for troubleshooting purposes.

When the “Machine Settings” choices are made, click “Save Changes”

**Fig. 12**



**Source Settings:** This tab simply sets a source address for the way in which you choose to connect the NV-MPS4 to the NuVo System, Fig. 13. When these choices are made, click “Save Changes”. Make sure to select the appropriate number of outputs you intend to use in the “Active Outputs” drop-down menu.

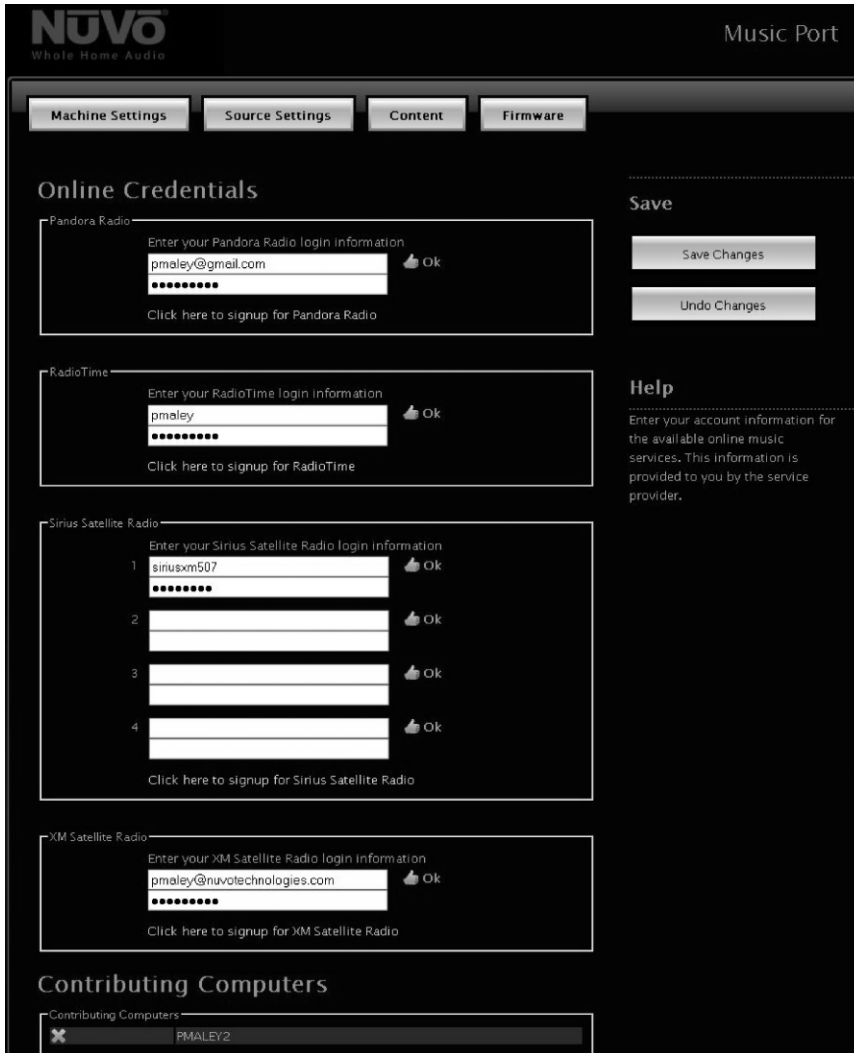
**Fig. 13**





**Content:** Here is where you set the streaming capabilities of the Music Port. Supply the user account information in each of the provider sections that apply to the intended use of the NV-MPS4, Fig. 14. Once this information is entered, click “Save Changes”.

Fig. 14



**Pandora Radio:** Pandora is a free Internet music streaming service. Once you have created a Pandora account from your computer, you simply enter your account information into the Pandora Radio section of the Content page. If you do not have an account, you can establish one using the embedded link, “Click here to sign up for Pandora Radio”.

**Radio Time:** This is another free service. It is not necessary to have an account to access the available radio stations. The account is necessary if you want the NV-MPS4 to be able to access presets created on Radiotime.com.

**XM and SIRIUS Satellite Radio:** These are subscription services with specialized programming. Note that you must have four separate SIRIUS accounts to allow for four separate simultaneous streams from different stations. This is not true for XM.

**Contributing Computers:** Listed here are all computers synced to the Music Port. To remove a contributing computer click the ‘X’ listed to the left of the computer name. This will remove all content contributed by this computer.

**Firmware:** This tab allows you to update the firmware, load the computer based Music Port Client control, and setup music sharing with the Music Port, Fig. 15.

**Fig. 15**



**Firmware Update:** This download utility will prompt you when a new version is available. When you click on the supplied link, the newest version will automatically update the NV-MPS4. If “No firmware update is currently available” appears, no further action is necessary. It is important to note that the NV-MPS4 is not updated over NuVoNet.

**Other Software:** There are two links here under the title “Music Port Client”, and a third application called the Music Port Sync Tool are contained in this section.

**Music Port Client:** The Client is a network computer application that provides full control of the content both personal and online streaming from any computer on the same LAN. When the RS232 serial connection is made to the NuVo Distributed Audio System, the Client will also allow access to all of the System zones, and sources with basic source and zone control, see section I. **Installing the NV-MPS4 as Part of a NuVo Distributed Audio System**, page 6.

**Start Music Port Client in this browser window:** This link will open the Music Port Client interface in an internet browser window. When the Client is open, it is easily saved as a “favorite” for future access. This application is recommended for Mac users.

**Install the Music Port Client stand alone application:** This link opens an install wizard that installs the Client as a standalone program on the PC. Once loaded the Client interface is easily accessed from a desktop icon. **It is important to load the Client on any user PC’s as part of the installation process of the Music Port.** For a detailed description of the Client interface see the **Music Port User Guide**.

**Install the Music Port Sync tool stand alone application:** This link will open an install wizard that loads the Music Port Sync Tool on any networked PC. This is the application that allows content from your computer to be shared with the Music Port and the associated NuVo Distributed Audio System. This tool will be covered in the next section, **IV. Loading and Using the Music Port Sync Tool**, page 14.

**Support:** The Remote Support section allows NuVo Technical Support to provide a security code to enable external access to the Remote Configuration Tool. This is only used for troubleshooting purposes.

#### IV. Loading and Using the Music Port Sync Tool

The Music Port Sync Tool is a powerful application that allows any user network PC to contribute music to the Music Port's hard drive.

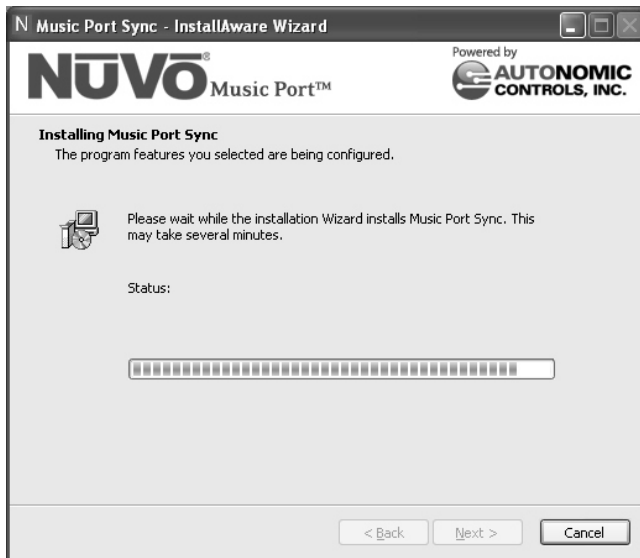
**Loading the Music Port Sync Tool:** You will find a link to the Music Port Sync Tool executable file in the Firmware tab of the Remote Configuration Tool. Click on the link and open the file, Fig. 16. You will be prompted to save the .exe file to a folder or run it from its current location.

**Fig. 16**



The executable will launch an installer program that loads the application on the user's computer hard drive, Fig. 17.

**Fig. 17**



**Summary:** The Summary tab provides overview of the Music Port. Here you will see the current operating version and IP address, Fig. 18. The Summary tab will provide a progress report of any music sync activity.

**Fig. 18**



**iTunes:** This tab points to the actual library on the user's hard drive, and syncs the chosen content with the Music Port. Under "Sync Settings," you have the choice to "Automatically update iTunes music." This choice will allow you to "Update all music" or "Update selected playlists." Any selection made here will automatically sync with the NV-MPS4, Fig. 19. **The Music Port will not play M4P protected content purchased and downloaded from iTunes. As of April of 2009 all content purchased from iTunes is unprotected and compatible with the NV-MPS4.**

**Fig. 19**



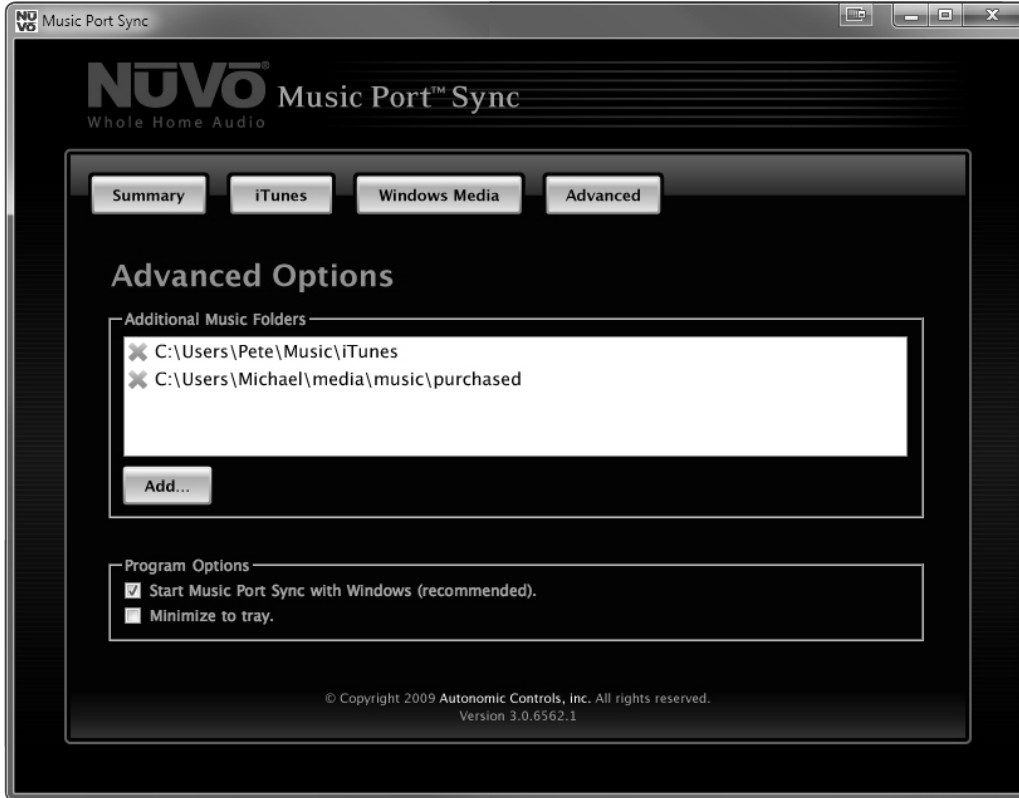
**Windows Media:** The Windows Media tab works like the iTunes tab. The choices and actions taken by the Music Port are identical. The difference is that the Sync Tool is looking at the content in Windows Media Player. It is possible to share content both from iTunes and Media Player, Fig. 20.

**Fig. 20**



**Advanced:** Rather than sharing music from a specific iTunes or Media Player library, you can point directly to a music folder or directory on the network. This allows any music content to be placed in a shared directory for access by the Music Port. Any music files copied to the shared folder will be seen by the Music Port and will automatically sync. Click on "Add..." and this will open a window that allows you to browse folders on the network, Fig. 21.

**Fig. 21**



## Music Port Specifications

Analog Audio Outputs 4

### Supported Audio Formats

Hard Drive Content MP3  
WMA  
M4A  
WAV

Internet Radio Pandora  
Sirius  
XM  
RadioTime

### System Information

Hard Drive Capacity  
320GB  
Network Connection 10/100/1000  
Mbits/sec  
NuVoNet Connection (RJ45) 1

### USB Connections (Type A)

Front Panel 1  
Rear Panel 3

RS-232 Serial Connection  
NuVo System RS-232  
Male DB-9  
57,600 Baud  
8 Data Bits  
No parity  
1 Stop Bit

### Power Requirements

Power Supply 85-265VAC 50/60Hz  
Power Consumption 16W

### Physical Specifications

Unit Size Millimeters 44 H x 430 W x 250 D  
Unit Size Inches 1 3/4 H x 17 W x 9 7/8 D  
Shipping Size Millimeters 205 H x 515 W x 343 D  
Shipping Size Inches 8 H x 20 1/4 W x 13 1/2  
Unit Weight Kilograms 2.6  
Unit Weight Pounds 5.75  
Shipping Weight Kilograms 5.44  
Shipping Weight Pounds 12.00

NuVo reserves the right to change specifications without notice.





