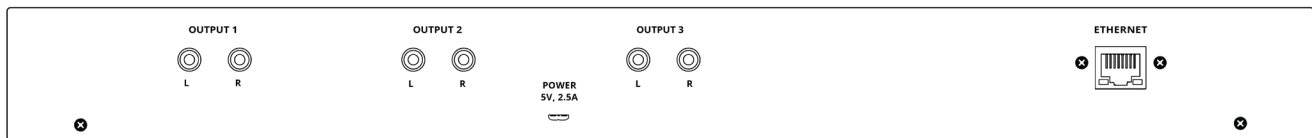# RTI Music

MS-3 Music Streamer - 3 Sources
Quick Start Guide

About RTI Music and the MS-3 Music Streamer

From the casual listener to the audiophile, streaming music has never been easier with RTI Music and the MS-3 Music Streamer. With three independent sources, the MS-3 enables easy delivery of Hi-Res Audio (24bit/192kHz) into any room or every room with a simple tap on an RTI touch panel or remote. RTI Music is designed exclusively for custom integrators, enabling delivery of an exceptional streaming experience with native control through any RTI control system. Whether the client is streaming music from their favorite platform or from their local NAS, the MS-3 elevates the audio experience.

RTI Music allows for multiple concurrent streams of its three sources. Streaming sources include Pandora, Spotify, iHeart Radio, SiriusXM, and TuneIn. The MS-3 is Airplay enabled for access to Apple Music, Amazon Music, and other streaming services from an Apple device. For commercial settings RTI Music works with SiriusXM for Business and SoundMachine. The client's personal music collection on a local NAS drive or computer can be accessed and fully integrated in the MS-3 with lossless audio (FLAC and ALAC) supported.

The user interface is a major differentiating factor for RTI Music, as the app integrates seamlessly into the RTI control system. Users can access playlists and search favorite songs, artists, and albums on their favorite services, all within the RTI control app. AirPlay enables any user - even a guest - with Apple Music to play from their favorite platform on any Apple device. And the Music Queue feature enables "play now", "play later", or "play soon" to build a queue of songs on the fly. "Favorites" playlists can integrate songs from multiple services and local device.

The MS-3 pairs with RTI audio distribution systems for seamless audio throughout the home.

Housed in a 1U chassis, it mounts in the system rack.
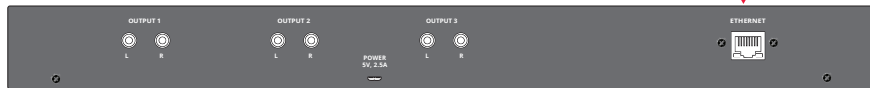
RTI Music Ecosystem
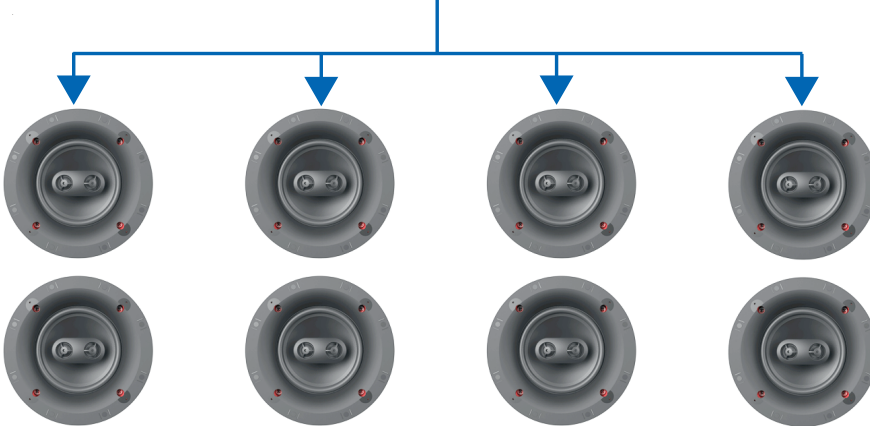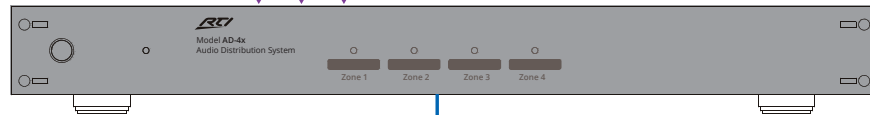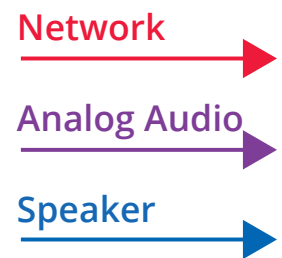
XP Processor (XP-8v, XP-6s, XP-3)

NAS

Network Switch

pandora   Spotify

(((SiriusXM)))   iHeart
SATELLITE RADIO

MS-3 Music Streamer

OUTPUT 1   OUTPUT 2   OUTPUT 3   ETHERNET

TUNE IN   AirPlay

SOUNDMACHINE   (((SiriusXM)))
MUSIC FOR BUSINESS

AD-4x / 8x / 16x

Model AD-4x
Audio Distribution System

Zone 1   Zone 2   Zone 3   Zone 4

Network →

Analog Audio →

Speaker →

Key Features

All-in-One Favorites
Easily create a favorites playlist with songs, artist, and stations from any platform on the MS-3.

Personal Music
Listen to music from a local NAS drive or your computer through the MS-3 for instant access to your music collections.

Lossless Audio
Expand the dynamic range of your music and hear everything when you play your lossless music files. (ALAC, FLAC).

Apple Airplay
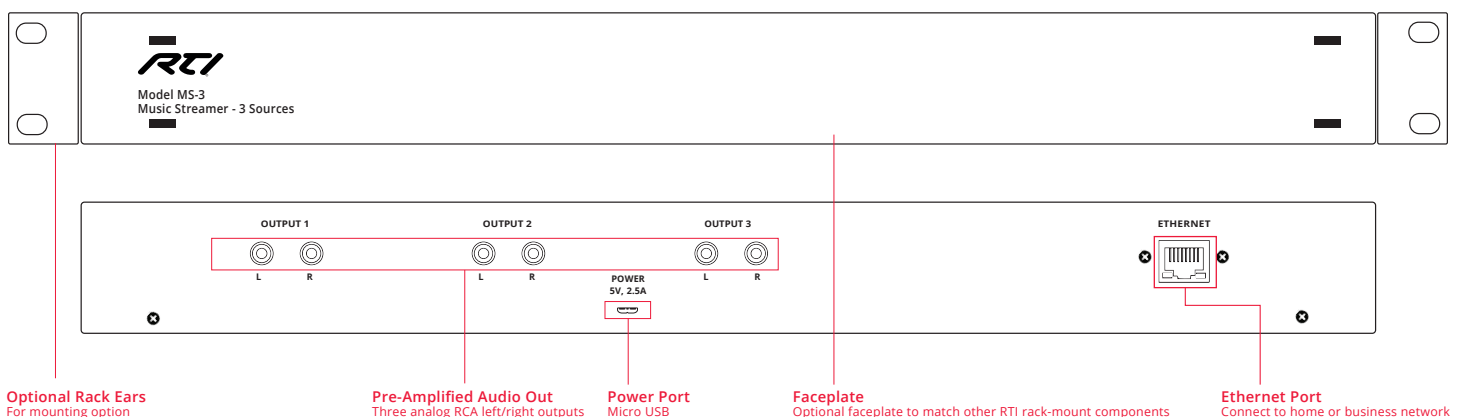Stream Apple Music or have a guest play from their favorite platform on any Apple device.

Multiple Streams
Not everyone has the same taste in music. Let up to three different people listen to their choice in music.

Music Queue
Play Now, Play Later, or Play Soon! Build a queue of songs in the order you want on the fly.

MS-3 Chassis At-A-Glance

Optional Rack Ears
For mounting option

Pre-Amplified Audio Out
Three analog RCA left/right outputs

Power Port
Micro USB

Faceplate
Optional faceplate to match other RTI rack-mount components

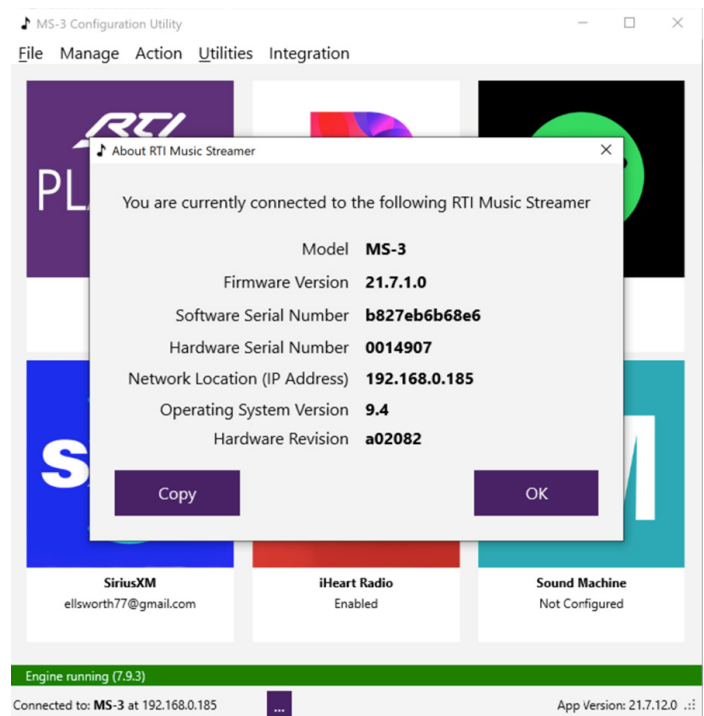**Ethernet Port**
Connect to home or business network

The MS-3 back panel features three stereo RCA outputs, an Ethernet port for connecting to the network, and a micro-USB power input. The chassis includes optional rack ears for easy rack mount.

MS-3 Set-up

Add the RTI Music Driver and launch Integration Designer (release 10 or higher). The RTI Music Setup Configuration Utility will open within Integration Designer to enable full configuration and customization of the RTI Music experience within any RTI system. The Utility includes five tabs for intuitive navigation through the initialization and set-up process: **File**, **Manage**, **Action**, **Utilities**, and **Integration**.

File

The **File** tab is where you will find information about the MS-3 Music Streamer, including the product's serial numbers, firmware versions, and hardware.
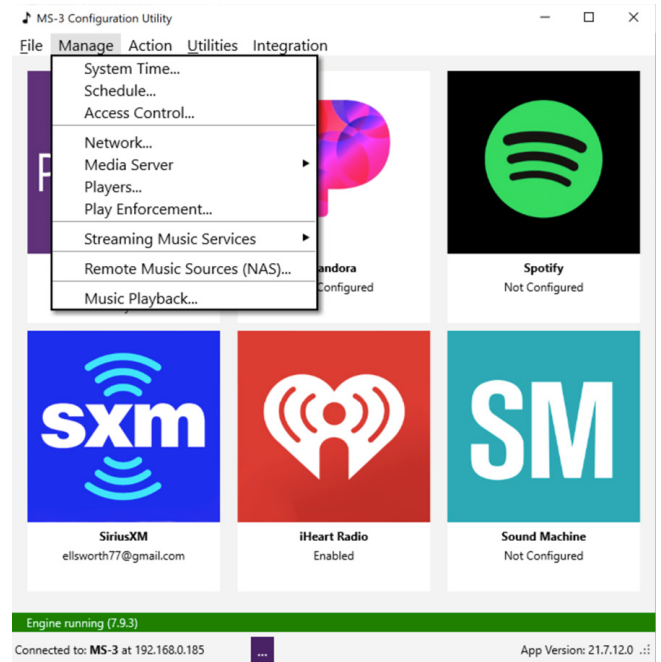
General steps for configuring the MS3 in the RTI Music Utility

Manage

The Manage tab is where you will set the system time, schedules, access control, network access and other functions.

- System Time: Set time zone for device (default is PST - Pacific Standard Time).

- Schedule: Schedule server and player events, such as scheduled event to reboot server once a week.

- Access Control: Configure access control (set password) for the server or player if needed.

- Network: Configure network settings for DHCP or Static IP and modify DHCP reset delay. Recommendation: Set to DHCP and set a DHCP reservation in your router.
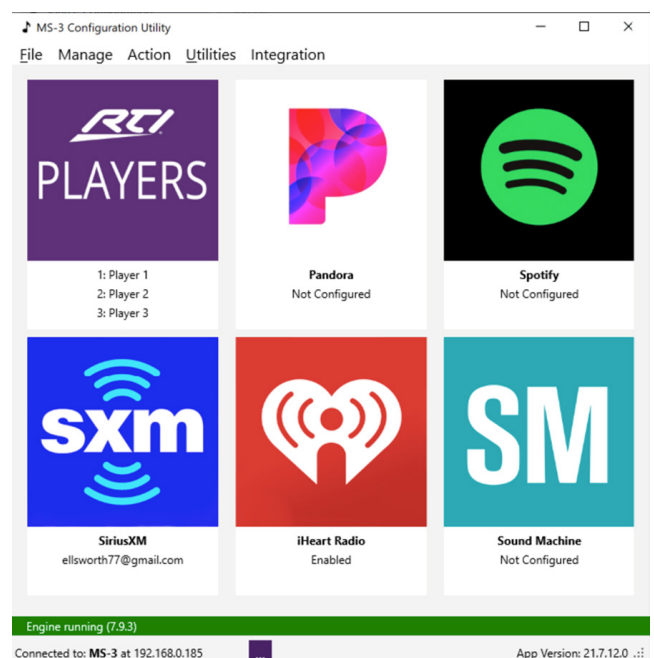

Configuring Players and Services

Utility Main Page

The Utility page is where you will set up streaming sources and name your players.

Players Button

- Player name, MAC Address, and status feedback

- Add, delete, edit player information
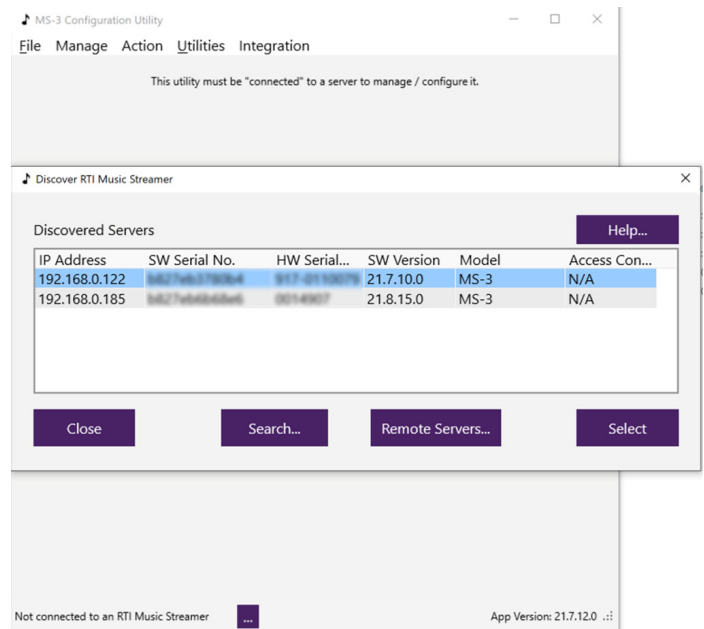
- Start and stop players

- Add external players

Streaming Services Buttons (Pandora, Spotify, SiriusXM, iHeartRadio, SoundMachine)

- Selecting any of the services will prompt for user credentials to be entered.
  Note: Paid accounts are required for Pandora, Spotify, SiriusXM, and SoundMachine.

- Custom names can be applied directly to the service when entering credentials.

- iHeartRadio is a free service that can be enabled or disabled. Credentials not needed.

- The Engine will restart after successful entry of credentials.
  Note: Engine takes 5- 30 seconds to restart. The Engine status bar on the home page will turn red and then green when it's restarted.

Advanced Features for Installers

Remote Management

The Utilities window is also where you will identify, update and add addresses on the network.

Remote Servers

The RTI configuration utility can log into units remotely and add notes about the system using the remote server feature.

Adding an MS-3 to the Remote Servers list

Step 1: Port forward the MS-3 to TCP port 9720 in the router.
Protocol: TCP
WAN Port: 9720
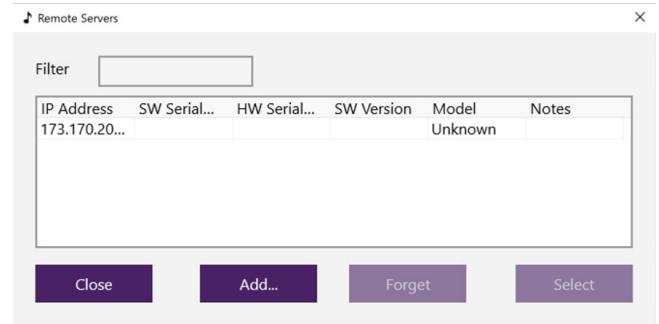LAN IP: IP address of the MS-3
LAN Port: 9720

Step 2: Navigate to the Remote Servers interface.
Connect to Server > Remote Servers

Step 3: Click Add and enter the external IP Address to the site.

Adding Notes to a system

Right click on the server and click "Edit Notes".

Utilities

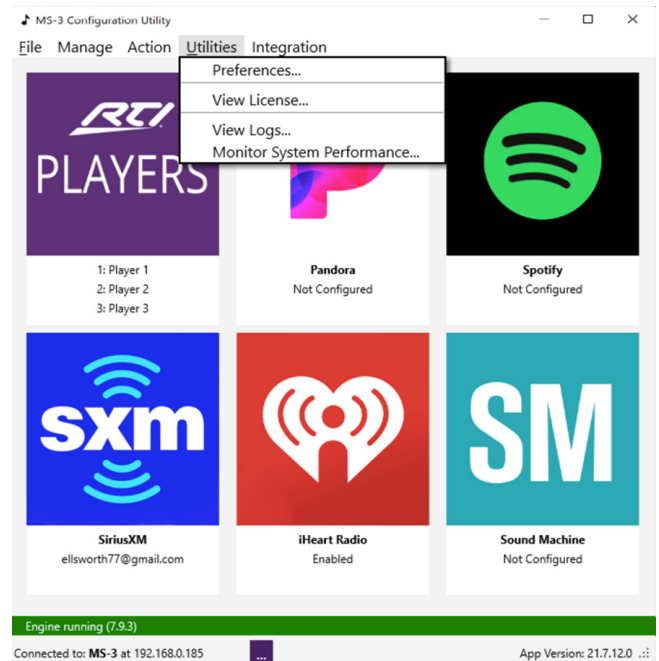The Preferences selection modifies the behavior of the configuration utility.

Auto-connect on Start

When enabled the utility will automatically connect to the MS-3.
Recommendation: Disable if more than one MS-3 in the system.

Auto-check for Updates on Connect

When enabled the utility will automatically look for updates.

Integration

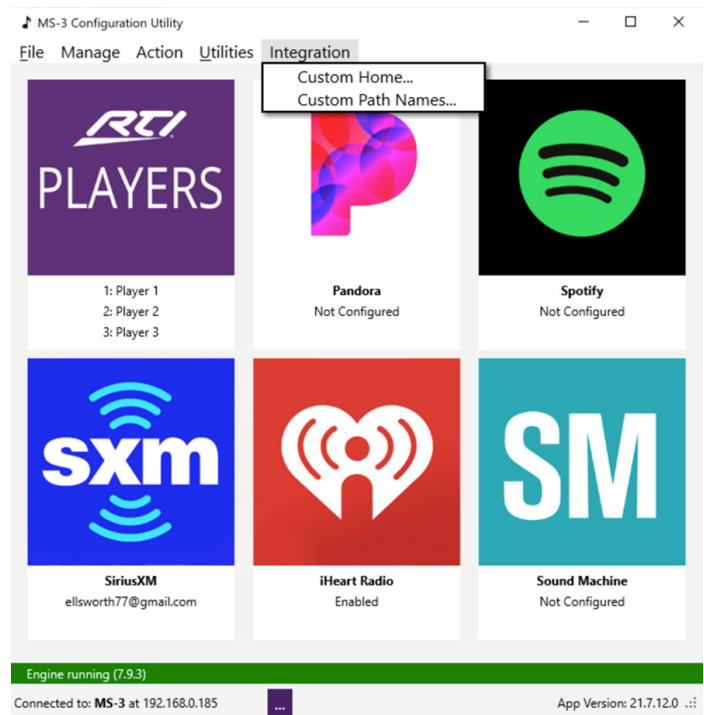The Integration window enables customizing the Home icons and Path names.

Custom Home

Choose the services and order they appear at the top level. This can be programmed for all players (default) or individual players
Note: Services can be added to the custom home page but will not appear in the interface until there is an account authorized for the service.

Custom Path Names

Customize the name of each account of a service.
Note: This name will appear in the interface for the end users.

Reset Unit to DHCP

If an incorrect static IP address is set or encountering an IP conflict on-site, the method to reset the unit to factory default is as follows:

1. Power the system off.

2. Disconnect the network cable.

3. Power the system back on with the network cable still disconnected.

4. Wait the allotted time set in the DHCP Reset interface (Default is 300 seconds or 5 minutes).
    Note: Reset time can be changed in the Network window (Manage > Networking > DHCP Reset).

5. Power the unit off again.

6. Connect the network cable.

7. Power the unit back on.

8. Open the Configuration Utility and the MS-3 will be in the system list.