Auriel Integration Guide

Manufacturer:	Integra, Onkyo
Model Number(s):	**Integra DTR-4.9, 5.9, 6.9, 7.9, 8.9, 9.9 Onkyo TX-NR906, TX-SR876, PR-SC886, TX-SR806, TXSR706**
Auriel Version:	1.0 and above
Comments:	FW 1.04
Document Revision Date:	7/31/15

OVERVIEW AND SUPPORTED FEATURES

Integra/Onkyo AV Receivers include an Ethernet port which is connected to a Local Area Network (LAN), allowing the **Niles Auriel** system to provide full two-way communication; enabling reliable control and providing feedback to the **Niles Auriel** system when changes occur at the receiver.

INTEGRA/ONKYO RECEIVERS SUPPORT THE FOLLOWING FEATURES:

Basic Source and Volume Control: Select any available source and control volume with two-way feedback. Changes made at the receiver (turning the volume control, changing source) are immediately reflected in the **Niles Auriel** interface.

Satellite Radio Inputs: Integra/Onkyo receivers have inputs for XM or Sirius Satellite Radio. These inputs are supported and use the standard **Niles Auriel** Satellite Tuner interfaces.

RDS: The RDS, or Radio Data System, is supported in the **Niles Auriel** interface where available.

INTEGRA/ONKYO RECEIVERS DO NOT SUPPORT THE FOLLOWING FEATURES:

Streaming Audio Sources: Digital music sources (USB, Ethernet, iPod etc.) are only available for source selection and volume control in **Niles Auriel**.

Surround Mode Control: Is not support in **Niles Auriel**.

Multiple AVR Zones: **Niles Auriel** supports the functionality of ***ONE AVR Zone***. When using supported A/V Receivers with Zone 2 (or Zone 3) outputs, these additional zones will not function correctly through the Auriel system and are NOT supported.

Note: In Ethernet control situations, it has been observed that the Integra/Onkyo receiver did not reliably provide feedback when the unit was toggled from XM to Sirius radio band at the unit or via remote. Note that in installs where local input or IR control will be used, **Niles Auriel** may not properly track changes from XM to Sirius. This was only observed in Ethernet control situations, and only when local input was using the band toggle function to move from XM band to Sirius band.

Any feature not specifically noted as “supported” is not supported.

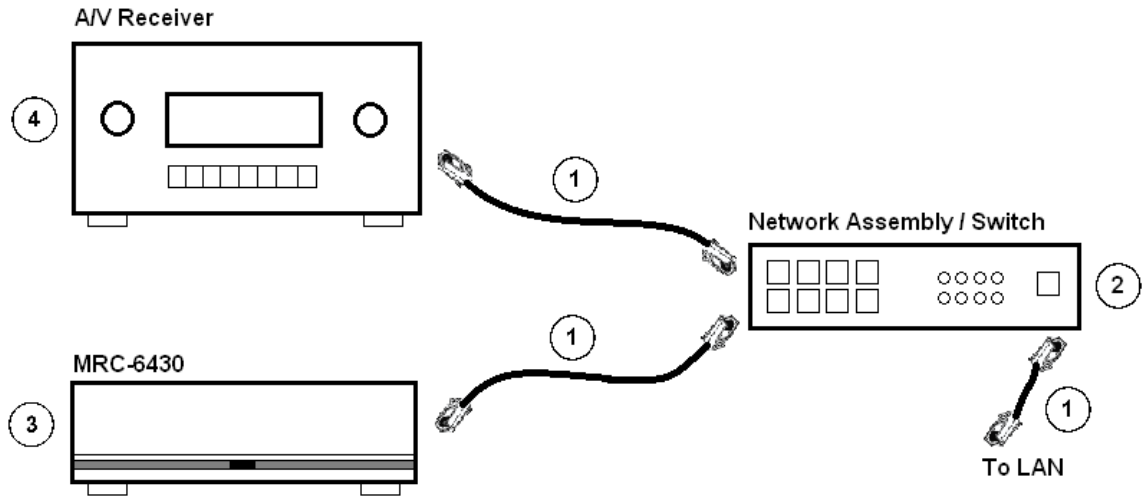
Integra/Onkyo Tuner Operational Notes:

- For proper tuning performance, select ***Enable Auto Tuning*** mode from the front of the unit for correct seek/tune behavior in **Niles Auriel**.
- Integra/Onkyo Tuners with named presets will replace the station name display with the station frequency when issuing a seek/tune command. If a second seek command is sent while the front panel displays the frequency, the tuner will begin to seek as normal.

INSTALLATION OVERVIEW

1. During the rough-in phase, install the necessary speaker and video cabling for the theater installation.
2. Also during the rough-in phase, run a Cat-5 wire from the location of the receiver back to the network switch location to provide the Ethernet connection needed to control the receiver. The **Niles MRC-6430** should already be connected to the same LAN.
3. Install the speakers, display and other theater components.
4. Program the receiver according to the manufacturer's documentation.
1. If there are other Onkyo/Integra components in the system, (such as DVD player), that equipment can be connected to the A/V Receiver using the Integra **RI** connection. Beware that the RI link causes certain built-in behavior that cannot be disabled: when the Play command is issued to the DVD player, for example, the receiver automatically switches to the DVD source.
5. Test the receiver to ensure that the sources play correctly and that the audio and video operate as expected.
6. Configure the **Niles Auriel** system for the receiver and confirm communication between the receiver and the **Niles Auriel** system controller.
7. Test the **Auriel** system by changing sources and volume to confirm that the correct source plays.

CONNECTION DIAGRAM: ETHERNET CONTROL



BILL OF MATERIALS

#	Device	Manufacturer	Part #	Protocol	Connector Type	Notes
1	Cat-5 Cable	Installer	N/A	TCP/IP	RJ-45 Male to RJ-45 Male	Must terminate all 8 conductors
2	Network Assembly/Switch	Installer	N/A	TCP/IP	RJ-45 Female	
3	MRC-6430 Auriel Controller	Niles	9901342	TCP/IP	RJ-45 Female	
4	Integra/Onkyo A/V Receiver	Integra/Onkyo	See **Notes**	TCP/IP	RJ-45 Female	See **Model Number(s)** above

INTEGRA/ONKYO ETHERNET CONFIGURATION

To enable reliable two-way control and feedback from the Onkyo/Integra AVR using Ethernet, **Network Control** must be enabled and a Static IP address assigned.

1. Enter the ***Setup*** Menu either via the remote or the front panel.
2. Use the ***UP*** and ***DOWN*** arrows to navigate to and select ***7. Hardware Setup***
3. Use the ***UP*** and ***DOWN*** arrows to navigate to and select ***6. Network***
4. Enter Settings as shown below, using the ***Arrow Keys***:

Control: ***Enable***	Enables external control.
Port: (default) ***60000***	Port # required in software for control.
DHCP: ***Disable***	Disable DHCP to prevent the unit receiving a variable dynamic IP address.
IP Address: (default) ***192.168.0.50***	We recommended setting the Ethernet controlled AVR to 192.168.0.50,
Subnet Mask: ***255.255.255.0***	(Typical Setting)
Gateway and **DNS**: (default) ***192.168.0.1***	Set to Router LAN IP Address

5. Press ***Return*** to exit setup

COMMON MISTAKES

1. Configuring the unit to use DHCP will lead to eventual connectivity and control problems. It is recommended to set up the Integra/Onkyo AVR with a Static IP address for reliable control. Please see the **Integra/Onkyo Ethernet Configuration** section above for instructions.
2. Attempting to configure multiple AVR zones. Even when using supported models that have second and/or third zones, only ONE AVR zone will work correctly with **Auriel**.