OneHome™
Management and Control Solutions

Audio Integration Note

Manufacturer:	Nexus
Model Number(s):	**C-6, C-6e**
Comments:	
Document Revision Date:	3/20/2007

OVERVIEW AND SUPPORTED FEATURES

The following features are supported:

Traditional Whole-House Audio: The Nexus system has keypads in each zone that control the volume and source.

Four wire solution: There is no dedicated keypad wire: only the speaker wires are needed from each zone back to the system, enabling it to be retrofitted in a home that has just volume controls in each zone.

Support for IR: The Nexus system has IR outputs that can provide signals to each of the sources, enabling transport control for equipment that has IR control. The available commands are equivalent to those found on the Nexus remote and must be programmed into the Nexus C-6 to function properly.

Built in AM/FM Radio: With the internal tuner module, AM/FM radio can be used in conjunction with the Nexus system, which enables the AM/FM tuner interface on the **One**Home Viewer.

Sources, Zones, and Expansion Modules: The Nexus C-6 has the built in AM/FM tuner and 5 source inputs for a total of 6 sources that can be selected to play in any of its 6 zones. In addition, the Nexus X-1 & X-2 Expansion Controllers can be added to increase the total number of zones in the system to 12 or 18. Keep in mind that the **One**Home system only needs to connect to the main Series Controller but can be configured to control 6, 12, or 18 zones to suit the installation.
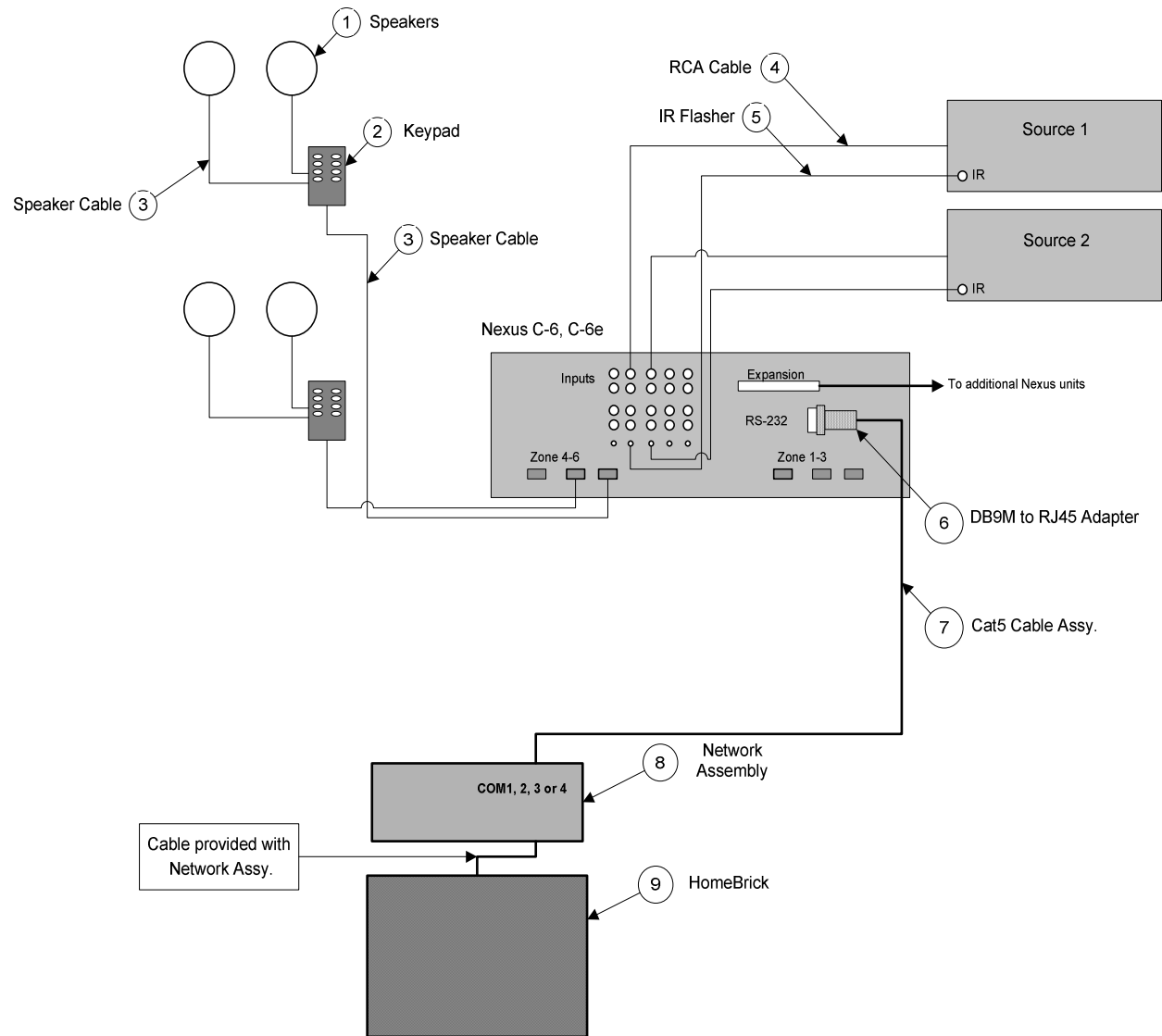
VIEWER INTERFACE FOR SOURCES

The interfaces shown on the Viewer for sources to the Nexus system are as follows:

- For radio sources (AM/FM/XM), the **One**Home **AM/FM/XM** tuner interface is shown.

- For digital media sources, the **One**Home **Music Library** interface is shown.

- For IR sources, a customizable interface is shown for the type of equipment. Refer to the Integration Note for the particular source, or refer to the **Generic IR Source** Integration Note.

INSTALLATION OVERVIEW

1. During the rough-in phase, install speaker wire for the speakers: note that separate Cat5 cable for the keypads is NOT needed.

2. Also during the rough-in phase, run a Cat5 wire from the location of the Nexus system back to the Network Assembly of the **One**Home system for RS-232 communications. Refer to the **RS-232 Connection Options** Integration Note for other options.

3. Mount the speakers and keypads in each zone, and install the Nexus system and the sources.

4. Program the Nexus system. This includes setting the number of sources, the names for each source, and the IR codes for each source.

5. If you have optional Series Expansion Controllers, connect them to the main Series Controller and configure them as described in the Nexus documentation.

6. Test the entire Nexus system to ensure that all the sources play correctly in every zone, and that the keypad buttons behave correctly from the keypads.

7. Connect the **One**Home system to the Nexus system electrically. See the wiring diagrams for more information.

8. Configure the **OneHome** system for the Nexus and confirm communication between the Nexus and the **Home**Brick.

9. Test the system by changing sources in a zone to confirm the correct source plays then by testing the **One**Home interface transport control and media server controls.

CONNECTION DIAGRAMS

① Speakers

RCA Cable ④

IR Flasher ⑤

Source 1

○ IR

② Keypad

Speaker Cable ③

Source 2

○ IR

③ Speaker Cable

Nexus C-6, C-6e

Inputs

Expansion → To additional Nexus units

RS-232

Zone 4-6   Zone 1-3

⑥ DB9M to RJ45 Adapter

⑦ Cat5 Cable Assy.

Network Assembly ⑧

COM1, 2, 3 or 4

Cable provided with Network Assy.

⑨ HomeBrick

BILL OF MATERIALS

#	Device	Manufacturer	Part Number	Protocol	Connector Type	Notes
1	Speakers	N/A		Analog	Wire	
2	Keypad	Nexus	Various	Custom	Wire	
3	Speaker Cable	N/A	N/A	Analog	Wire	
4	RCA Cable	N/A	N/A	Analog	RCA X RCA	None included with C-6 controller
5	IR Flasher	Nexus	N/A	IR	Mini Jack X IR Flasher	
6	DB9M to RJ45 Adapter	HomeLogic	HA-CB-307	RS-232	DB-9 Male X RJ-45 Female	
7	Cat5 Cable Assy.	Installer	N/A	RS-232	RJ-45 Male X RJ-45 Male	You must terminate all 8 conductors
8	Network Assembly	HomeLogic	HW-NA-18X4	RS-232	RJ-45 Female X DB-9 Female / USB	
9	HomeBrick	HomeLogic	HW-HB-1080	RS-232	DB9 Male / USB	

HomeLogic Configuration Details

The following table provides settings used in the HomeLogic Configurator. Please refer to the Configurator Reference Guide for more details.

- ○ "<Select>"　　　　　　　　　　　Select the appropriate item from the list (or drop-down) in the Configurator.
- ○ "<User Defined>", etc.　　　　　　Type in the desired name for the item.

Devices	Variable Name	Setting	Comments
Communication Devices	Name	<User Defined> (Default: **New Device**)	It is recommended to name com devices appropriately
	Type	**Serial Port**	
	Communication Type	**Nexus**	
	Location	<User Defined> (Not Required)	
	COM Port	<Select>	
Audio Tuners	Name	<User Defined>(Default: **Nexus C-6 Internal AM/FM Tuner**)	
	Device Type	<Select> (Default: **Nexus C-6 Internal AM/FM Tuner**)	
	Location	<User Defined> (Not Required)	
Audio Zone Controllers	Name	<User Defined> (Default: **Nexus C-6 (XX Zones)**)	
	Device Type	**Nexus C-6 (XX Zones)**	See note 1
	Location	<User Defined> (Not Required)	
	COM Device	<Select> (Default: **New Device**)	
Sources	Name	<User Defined>	
	Source Device	<Select>	
	Source Volume	<Select> (See Note 2)	
	Show Source	<Select>	
Zones	Name	<User Defined>	
	Show Zone	<Select>	

Notes:
1. Select the Nexus C-6 with the appropriate amount of zones to match your install.
2. For systems with devices that have controllable volume (such as an AudioTron), select the desired volume (normally 100%).

COMMON MISTAKES

1. Improper programming of the Nexus controller. Make sure you complete programming of the Nexus equipment, and that it functions properly as a stand-alone system, before attempting to connect and control from the **One**Home system.

2. Improperly setting the addresses for systems with Series Expansion controllers. Remember to set the address as explained in the Nexus documentation.