Integration Note

Manufacturer:	Integra
Model Number(s):	**TUN 3.7**
Core Module Version:	4.0 Build 1545 or later.
Comments:	TUN 3.7 FW: 1.05
Document Revision Date:	01/29/2013

OVERVIEW AND SUPPORTED FEATURES

The Integra TUN-3.7 tuner is a card based tuner with optional AM/FM, HD AM/FM/SAT, or SAT tuner cards. The TUN-3.7 includes an RS-232 connection that is used to communicate with the **g!** system enabling reliable two-way control and feedback.

THE TUNER SUPPORTS THE FOLLOWING FEATURES:

Basic Tuning/Band Control: Arbitrary station selection, seek up/down, station favorites, bands etc.

Built-In g! Interface: Built-In interfaces are available for each possible tuner configuration. See **HomeLogic Configuration** below.

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

Important! The SAT module cards require an external Sirius or XM Tuner module in addition to the correct tuner card.

THE TUNER DOES NOT SUPPORT THE FOLLOWING FEATURES:

Any feature not specifically noted as supported should be assumed to be unsupported.

INSTALLATION OVERVIEW

1. During the rough-in phase install the necessary power and A/V cabling for the tuner.
2. Also during the rough-in phase, run a Cat5 wire from the location of the tuner back to the Network Assembly of the **g!** system to provide the serial connection needed to control the tuner. Refer to the *RS-232 Connection Options Integration Note* for other serial connection options.
3. Install the tuner and other home audio or theater components.
4. Test the tuner with the audio / video equipment to ensure that the stations tune and play correctly.
5. Connect the **g!** system to the tuner electrically. See the connection diagram for more information.
6. Configure the **g!** system for the tuner and confirm communication between the tuner and the **g!** system controller.
7. Test the system by changing stations from the Viewer interface.

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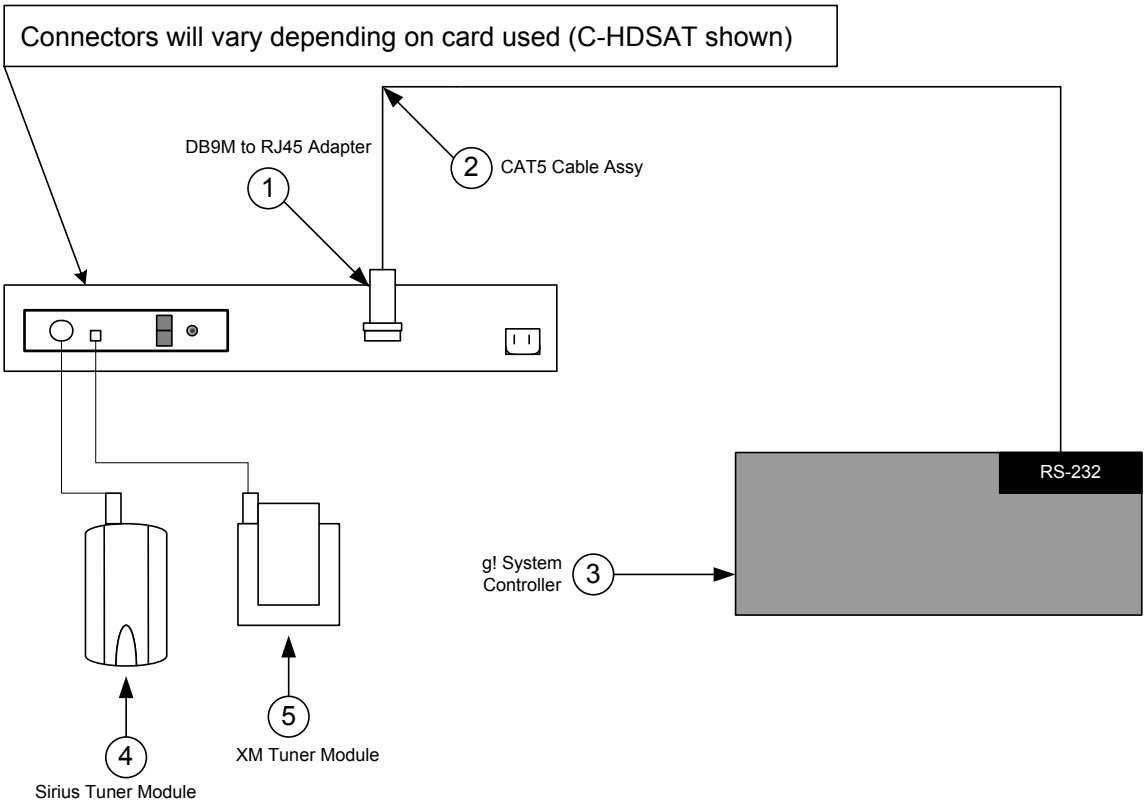
CONNECTION DIAGRAMS



BILL OF MATERIALS

#	Device	Manufacturer	Part Number	Protocol	Connector Type	Notes
1	DB9M to RJ45 Adapter	ELAN	HA-CB-307	RS-232	DB-9 Male X RJ-45 Female	
2	Cat5 Cable Assy.	Installer	N/A	RS-232	RJ-45 Male X Wire	
3	g! System Controller	ELAN	Various (e.g. HC12)	RS-232	RJ-45	
4	SIRIUS Tuner Module	SIRIUS	SC-H1	Other	DIN	
5	XM Mini Tuner/Home Dock	XM	CNP2000/CNP2000H	Other	Proprietary	Cosmetically similar to mini-usb

Note: Both Satellite tuners are show above for illustration purposes only. The TUN-3.7 only supports the connection of one Satellite tuner at a time.

INTEGRA CONFIGURATION

There are no special settings required to enable external control of the Integra; however it is recommended for proper tuning performance to **Enable "Auto Tuning"** mode from the front of the unit for correct seek/tune behavior.

Note: Integra Tuners with named presets will replace the station name display with the station frequency on 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.

g! CONFIGURATION DETAILS

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

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

Devices	Variable Name	Setting	Comments
Communication Devices	**Name**	<User Defined> (Default: **New Device**)	
	Type	**Serial Port**	
	Communication Type	**Standard Connection**	
	Location	<User Defined> (Not Required)	
	COM Port	<Select>	
Audio Tuners	**Name**	<User Defined> (Default: **Integra 3.7 *BAND* Tuner**)	
	Device Type	**Integra 3.7 *BAND* Tuner**	**See Note 1**
	Location	<User Defined> (Not Required)	
	COM Device	<Select> (Default: **New Device**)	
<Audio Zone Controllers>	Add an Audio Zone Controller: refer to the Integration Note for your particular receiver or zone controller. (See Note 2)		

Notes:

1. BAND= Type of Tuner used. (Ex. Integra 3.7 AM/FM Tuner)
2. You must add an Audio Zone Controller to get a tab in the Viewer interface.
   For compatible receivers and zone controllers, refer to the Integration Note for the particular system.
   For a single zone where a source is connected to a basic amp, refer to the **Single Zone Audio** Integration Note.

COMMON MISTAKES