SIMPLWINDOWS NAME:	Pioneer VSX49TXi
CATEGORY:	Receiver/Processor
VERSION:	1.0
SUMMARY:	Controls Power, volume and muting, Function Modes (source selection)and Listening Modes (surround mode selection).
GENERAL NOTES:	This module will control the power, volume & muting, source selection and surround mode selection on a Pioneer VSX49TXi receiver. All functions in the module have true feedback from the processor. The module will automatically poll for and update status of the volume, function mode, listening mode and muting state when the device is powered on.
	It should be noted that there are many features of this device that are not controllable from this module. All functions that were available from Pioneer at the time of the module's creation are included but the programmer may find it necessary to still have IR control for the functions that are not available from the manufacturer. Among the functions not available for serial control are: tuner controls, bass & treble, balance, loudness, tape 2 monitor, DNR, Midnight mode, effects adjustments and any setup menus & operations.
	Volume feedback on the receiver does not update continuously as volume is ramped up or down. The device will only return a volume update once the incoming data has stopped. In practice this means that a volume bar or digital gauge will not follow the unit's front panel and change it's readout as volume is ramped. Once incoming data stops the receiver will return the current volume level and accurately update the touch panel.
	As an energy saving feature Pioneer turns the main CPU off when in Standby mode. For this reason the first command sent to the unit will not actually cause that command to be executed but will act as a wake-up trigger and power the unit on. This means ANY command, including a Power_Off or polling command will turn the unit On. And if the unit is in Standby, with the exception of a Power_on command, every other command will not be processed the first time and must be sent twice for the action to take place. An interval of 100ms is required between any 2 commands.
CRESTRON HARDWARE REQUIRED:	C2COM-3 CNXCOM ST-COM
SETUP OF CRESTRON HARDWARE:	Baud Rate - 9600 Parity - None Data Bits - 8 Stop Bits - 1
VENDOR FIRMWARE:	None
VENDOR SETUP:	Extensive speaker setup menus are provided for the VSX49TXi depending on the number of speakers used in the system. Some Listening Mode settings may or may not available in certain speaker configurations. There is no serial control provided for any of these setup menus so they must be done through the Pioneer provided IR remote control.
CABLE NUMBER:	CNSP-124

CONTROL:

Power_On	D	Turns Power ON
Power_Off	D	Turns Power OFF
Volume_Up	D	Ramps Volume Up
Volume_Down	D	Ramps Volume Down
Mute_On	D	Turn Mute On
Mute_Off	D	Turns Mute Off
Function Modes: (Phono - Video)	D	Selects input source
Listening Modes: (Std_PLII_Movie_5.1 - MultiCh_Adjust)	D	Selects Surround Sound Listening Mode and Listening Ch.
From_Device$	S	Receive commands from the device

FEEDBACK:

Power_On_fb	D	Feedback for Power On
Power_Off_fb	D	Feedback for Power Off
Mute_On_fb	D	Feedback for Mute On
Mute_Off_fb	D	Feedback for Mute Off
Function Modes_fb: (Phono_fb - Video_fb)	D	Feedback for selected input source
Listening Modes_fb: (Std_PLII_Movie_5.1_fb - MultiCh_Adjust_fb)	D	Feedback for selected Listening Mode
Volume_Bar	A	Feedback of volume for a Bar Gauge
To_Device$	S	Transmit commands to the device

OPS USED FOR TESTING:	X-Generation: 5.12.63x 2-Series 3.015
COMPILER USED FOR TESTING:	SimplWindow ver. 2.03.18
REVISION HISTORY:	X-Generation: Pioneer VSX49 TXi MSX demo.smw
	2-Series: Pioneer VSX49 TXi 2-Series demo.smw