BSS: Soundweb London

This module controls an “Telephone Hybrid Card“ object in a Soundweb London program.

GENERAL INFORMATION

SIMPLWINDOWS NAME:	BSS Soundweb London Telephone Hybrid Card v4.2
CATEGORY:	Mixer
VERSION:	V4.2
SUMMARY:	This module controls an “Telephone Hybrid Card“ object in a Soundweb London program.
GENERAL NOTES:	Each object in a Soundweb London program is given an object number. As “Telephone Hybrid Card“ objects always have the same object ID, you just have to specify which “Telephone Hybrid Card“ you want to control. (“card“ parameter) The TX and RX of this module should be connected to a “BSS Soundweb London Node v4.2.usp“ module. This “Node“ module needs to have its “Node“ parameter set to the node of the Soundweb London device to control. All analog input and outputs range from 0d to 65535d (0% to 100%) (Except for auto_answer which ranges from 0d to 10d When you subscribe to a State-Variable, the Soundweb London will send an unsolicited updates automatically whenever that state-variable is changed in order to keep the Crestron system in sync with the London without requiring extra effort from the programmer to set up ‘polling’, or requiring the Crestron processor to constantly check for updates. The first time the subscribe message is sent the Soundweb London will respond with its current state much like a ‘GET’ statement. The Soundweb London will keep sending updates until a ‘UNSUBSCRIBE’ input is pulsed. Normal practice would be to tie the Subscribe input to the TCP/IP connection feedback so that if a socket is dropped it will automatically sync when the socket is re-established. If using RS232, putting a 1 on the subscribe input will ensure true-feedback. NOTE: The subscribe and un-subscribe signals must be mutually exclusive as transitions from low-to-high while the other signal is already high is not allowed. If this error state is encountered, an error message will be sent to the console. All subscribed stateVariables report their value when changed. The meter stateVariable reports its value a defined times per second. So when subscribing a rate has to be defined for the meter value to be reported. (meterRate parameter) The parameter is set in milliseconds. 1d is “report meter value 1000 times per second) Please keep in mind that setting a value too low, will result in heavy data transmit.
CRESTRON HARDWARE REQUIRED:	X-series or preferable 2-series
SETUP OF CRESTRON HARDWARE:	The demo program was created on a CP2E with TPS-4000 The Soundweb London is to be connected on a com port with a standard crossed cable and the following settings: 115200, 8, 1, N Or to use TCP/IP: Port 1023
VENDOR FIRMWARE:	3.06
VENDOR SETUP:	Soundweb London Blu-160

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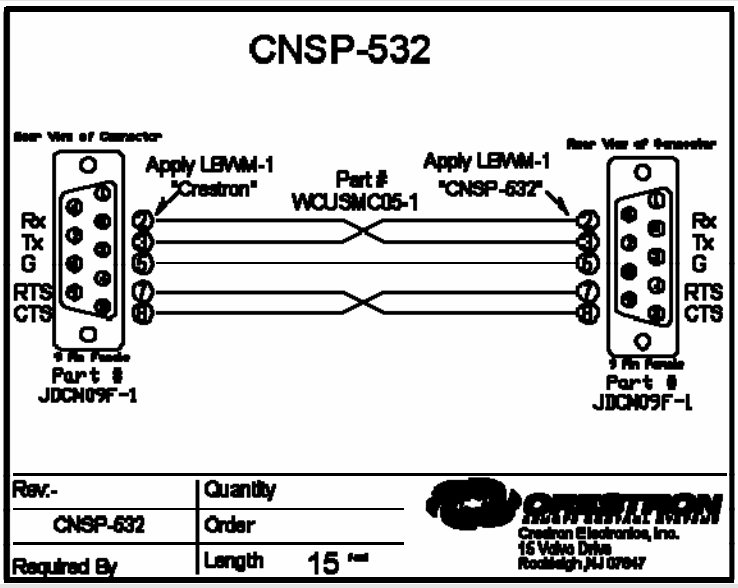
CABLE DIAGRAM:



CONTROL:

auto_answer	A	set the auto_answer value (no rings to 10 rings)
Tx_gain	A	set the tx gain value (-12dBu to 12dBu)
Rx_gain	A	set the Rx gain value (-12dBu to 12dBu)
DTMF_gain	A	set the DTMF gain value (-20dBu to 0dBu)
Dial_tone_gain	A	set the dial tone gain value (-20dBu to 0dBu)
Ring_gain	A	set the ring gain value (-20dBu to 0dBu)
Button_1	D	Push button 1.
Button_2	D	Push button 2.

Button_3	D	Push button 1.
Button_4	D	Push button 4.
Button_5	D	Push button 5.
Button_6	D	Push button 6.
Button_7	D	Push button 7.
Button_8	D	Push button 8.
Button_9	D	Push button 9.
Button_0	D	Push button 0.
Button_pause	D	Push button pause(,).
Button_delete	D	Push button delete (clear number).
Button_redial	D	Push button redial.
Button_international_plus	D	Push button international(+).
Button_backspace	D	Push button backspace.
Button_flash	D	Push button flash.
Button_#	D	Push button pound (#).
Button_asterisk	D	Push button asterisk (*).
Hang_up	D	Hang up on the call.

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Dial	D	Dial number, or pick up the phone (take it off the hook)
Toggle_Dial_Hang_Up	D	Toggle between hanging up and dialing or taking the phone off the hook
Tx_muteOn	D	Mute Tx gain
Tx_muteOff	D	Unmute Tx gain
Tx_muteToggle	D	Toggle mute of Tx gain
Rx_muteOn	D	Mute Rx gain
Rx_muteOff	D	Unmute Rx gain
Rx_muteToggle	D	Toggle mute of Rx gain
Speed_StoreX	D	Store the number currently dialed to a certain speed dial number (X = 1-16)
Speed_dialX	D	dial the number currently stored to a certain speed dial number (X = 1-16)
subscribe	D	subscribe to all functions (state variables) of the object
unsubscribe	D	unsubscribe to all functions (state variables) of the object
Meter_subscribe	D	subscribe to all meters of the object
rx	S	connected to the “modulesRx“ of the correct “BSS Soundweb London Node v4.2.usp“ module

FEEDBACK:

Incoming_call_fb	D	Incoming call feedback (High means a call is incoming)
Hook_status_fb	D	Hook status feedback (high means off the hook, and low means it’s hung up)
Tx_mute_fb	D	Tx mute feedback
Rx_mute_fb	D	Rx mute feedback

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Speed_dial_fbX	D	This feedback is not used. It is only there to make it so you can add and take away speed dial numbers without messing with the other signal locations
Auto_answer_fb	A	Auto answer feedback
Tx_gain_fb	A	Tx gain feedback
Tx_meter_fb	A	Tx meter feedback
Rx_gain_fb	A	Rx gain feedback
Rx_meter_fb	A	Rx meter feedback
DTMF_gain_fb	A	DTMF gain feedback
Dial_tone_gain_fb	A	Dial tone gain feedback
Ring_gain_fb	A	Ring gain feedback
Phone_number_fb	S	Phone number feedback
tx	S	connected to the “modulesTx“ of the correct “BSS Soundweb London Node v4.2.usp“ module

PARAMETERS:

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card	d Specifies which card is to be controlled. A, B, C or D
Meter_Rate	set the rate in which the Soundweb London has to report back the meter value. d Milliseconds: 1000d = once per second

TESTING:

OPS USED FOR TESTING:	4.003.0015
COMPILER USED FOR TESTING:	2.12.44
SAMPLE PROGRAM:	BSS Soundweb London v4.2 Demo Program
REVISION HISTORY:	V4.1 – Creation. V4.2 – Fixed rounding error, fixed dial hang up error, and updated help file.

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