

SIMPLWINDOWS NAME: Philips Smartlink 2 With Channel Labels

CATEGORY: Monitor

VERSION: 1.0

SUMMARY: Controls power/channel selection/volume and labels for channels

GENERAL NOTES: This module will control a Philips Institutional Television (ITV) with a NET1CCI card installed, using the Smartlink 2 Interface.

This module allows control of power, source selection (antenna, aux, svideo, vga) tuning mode (cable or broadcast), volume, mute, and channel selection. In addition, it allows custom labels to be entered for each channel. When a channel is selected, the custom label will be displayed on the TV screen. So instead of displaying just a channel number, you could display the name of the station as well.

Inputs are also provided to select global control mode, which should control all TV's in the same group, as well as single control mode. Note that single control mode has not been tested, and therefore proper operation cannot be guaranteed.

There is no true feedback provided by the Philips system, so all feedback provided by this module is simulated.

Note that if it is desired to have presets for channel selection, such that with the press of a button, preset stations can be selected, you can attach an Analog Initialize symbol to the CHANNEL output of this module. Whenever a preset is pressed, set the Analog Initialize to the channel number desired, and also pulse the CHANNEL-KEY-ENTER input to recall the channel immediately.

CRESTRON HARDWARE REQUIRED: CNXCOM, ST-COM

SETUP OF CRESTRON HARDWARE: Baud Rate - 1200
Parity - None
Data Bits - 8
Stop Bits - 1

VENDOR FIRMWARE: Net One Card Version Release 1.000

VENDOR SETUP: This module was tested at Crestron using the following equipment:

Philips ITV model # PC9219 C125 with NET1CCI card installed P# 3135 015 08671 Version 1.000 Control cable connected to the SmartPlug on the NET1CCI card

Using the Philips IR remote, set up the following:

On the menu accessed with the "A" button
Set mode to commercial
Set control mode to Receive

On the menu accessed with the "D" button
Enable as many groups as desired

CABLE NUMBER: CNSP-614

CONTROL:

| | | |
|-------------------------------|---|---|
| POWER-ON/OFF/TOGGLE | D | Pulse to turn the TV on or off |
| INPUT-* | D | Pulse to select the antenna or one of the aux inputs |
| CHANNEL-KEY-0-9/CLEAR | D | Keypad for direct entry of channel numbers |
| CHANNEL-KEY-ENTER | D | Pulse to send the entered channel to the TV |
| CHANNEL-UP/DOWN | D | Pulse to increment/decrement the channel by one |
| VOLUME-UP/DOWN | D | Press and hold to ramp the volume level up/down |
| VOLUME-MUTE-ON/OFF/TOG | D | Pulse to mute/unmute the audio |
| CONTROL-SINGLE/DUAL | D | Pulse to select global or single unit control mode. This has only been tested in global mode |
| TUNE-CABLE/BROADCAST | D | Pulse to select the desired tuning mode |
| PHILIPS-RX\$ | S | Serial signal to be routed from a 2-way RS232 port |
| CHANNEL-UPPER-LIMIT | P | Enter the maximum channel number +1 that you would like to be entered. So for a max of 125 channels, enter 126d |
| CH-* -LABEL | P | Used to designate what custom label you would like displayed on the TV screen when the associated channel has been selected |

FEEDBACK:

| | | |
|--------------------------|---|---|
| POWER-ON/OFF-FB | D | Simulated feedback indicating the state of power |
| INPUT-* -FB | D | Simulated feedback indicating which input is selected |
| CHANNEL | A | Simulated analog value showing the current channel. Should be routed to a digital panel meter on a touchpanel |
| VOLUME-BAR | A | Analog value showing the relative volume level. Should be routed to a bargraph on a touchpanel |
| VOLUME-MUTE-* -FB | D | Simulated feedback indicating the state of mute |
| CONTROL-* -FB | D | Indicates the control mode selected |
| TUNE-* -FB | D | Indicates the tuning mode selected |
| PHILIPS-TX\$ | S | Serial signal to be routed to a 2-way RS232 port |

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| OPS USED FOR TESTING: | 5.12.26x |
| COMPILER USED FOR TESTING: | SimplWindows Version 1.52.01 |
| SAMPLE PROGRAM: | Philips Smartlink 2 Demo Program |
| REVISION HISTORY: | None |