

SIMPLWINDOWS NAME: Epson 5600/7600 Projector

CATEGORY: Projector

VERSION: 1.0

SUMMARY: Controls power/input selection/mute/menu

GENERAL NOTES: This module will control an Epson EMP 5600/7600 video projector. It uses Epson Level 6 Protocol.

It allows control of power, input selections, av mute, and menu functions. In addition, it will poll the projector for 1 minute after a power or input selection command is sent, for the status of power and input. If it is desired to poll the projector beyond this one minute time, you can assert the POLL-ENABLE input. Then the projector will be polled continuously.

The projector provides feedback of not just power on/off but also warm up, cool down, fault and suspend. These STATE-* outputs of the macro could be routed to legend buttons to display the actual state of the projector.

The POWER-ON-FB output will be high when the projector reports power is fully on, and will be flashing when the projector is in the warm up state. The POWER-OFF-FB output will be high when the projector reports power is off, and will be flashing when it is in the cool down state.

CRESTRON HARDWARE REQUIRED: CNXCOM, ST-COM

SETUP OF CRESTRON HARDWARE: Baud Rate -9600
Parity - None
Data Bits - 8
Stop Bits - 1

RTS is required to be high. By default the RTS line on a CNXCOM port is high, so there is no need to assert RTS in the program

VENDOR FIRMWARE: None

VENDOR SETUP: The cable should be connected from the Crestron com port to the adapter cable provided with the projector. This adapter cable plugs into the projector on one end, and has a block of three connectors on the other end (one 9-pin, one Mouse, and one mac serial). Use the 9 pin connector. The pin out linking Crestron to the 9 pin connector is as follows:

Crestron	to	Epson
9 pin female D	to	9 pin female D
2	to	3
3	to	2
5	to	5
7	to	6

CABLE NUMBER: CNSP-596

CONTROL:

POWER-ON D Pulse to turn the projector on. Feedback will be reflected at the POWER-ON-FB output

POWER-OFF	D	Pulse to turn the projector off. Feedback will be reflected at the POWER-OFF-FB output
INPUT-*	D	Pulse to select the desired input. If the projector is powering on when pulsed, the command will be processed when the projector has finished powering on
AV-MUTE-ON	D	Pulse to blank the projectors video and audio.
AV-MUTE-OFF	D	Pulse to restore the projectors video and audio
MENU-*	D	Emulates menu functions on the projector
POLL-ENABLE	D	If held high, the projector will be polled continuously for power and input status. If held low, the projector will only be polled for 1 minute after a power or input selection command
FROM_DEVICE\$	S	Serial signal to be routed from a 2-way RS232 port

FEEDBACK:

POWER-ON-FB	D	True feedback indicating that power is on. Will flash while the projector is warming up
POWER-OFF-FB	D	True feedback indicating that power is off. Will flash while the projector is cooling down
INPUT-*.FB	D	True feedback indicating which input is currently active
STATE-*	D	Indicates the various states of the projector. Only one will be high at a time. Could be routed to legend buttons to indicate power-up and power-down states
TO_DEVICE\$	S	Serial data string to be routed to a 2-way RS232 port

OPS USED FOR TESTING:	5.12.26x
COMPILER USED FOR TESTING:	SimplWindows Version 1.61.12
SAMPLE PROGRAM:	Epson Level 6 Demo
REVISION HISTORY:	None