Clear Digital CRN PCON500 Crestron Module

GENERAL INFORMATION	
SIMPLEWINDOWS NAME:	Clear Digital CRN PCON500
VERSION:	V1.0
SUMMARY:	This module created for the Clear Digital CRN PCON500 direct view LED product. It was tested with Ethernet and RS232 control on a CP3 Processor.
GENERAL NOTES:	NOTE: Requires Crestron Database and Crestron Device Database v200 or later. **Network:** The CRN PCON500 communicates via UDP on port 8600. Also, for the CRN PCON500 to respond to Crestron commands via Network "Centralized management service" must be enabled. This can be enabled by navigating to: Settings → Functional Management → enable "centralized management service." **RS232:** The CRN PCON500 RS232 control communication details are below: - Baud Rate: 115200 - Data Bits: 8 - Stop bits: 1 - Parity: N
CRESTRON HARDWARE REQUIRED:	Serial or Ethernet processor
SETUP OF CRESTRON HARDWARE:	Module supports both 3rd and 4th series processors
VENDOR FIRMWARE:	Unknown

CONTROL		
RX$	S	Serial Responses from the CRN PCON500 will be reported to the module on this signal. This should be tied to the UDP or COM symbol for Module Feedback.
Initialize	D	Trigger at Program Start to enable Module with Device. Reads state of Device and checks if ready for commands.
Power_on	D	Trigger to power on CRN PCON500. Note that it may be a good idea to oscillate the power_on command as sometimes the CRN-PCON500 may not respond on first command.
Power_off	D	Trigger to power off CRN PCON500. Note that it may be a good idea to oscillate the power_off command as sometimes the CRN-PCON500 may not respond on first command.
Volume_up	D	Trigger to increase volume by. CRN PCON500 has 10 volume steps 0-100db by 10db steps.
Volume_down	D	Trigger to decrease volume by. CRN PCON500 has 10 volume steps 0-100db by 10db steps.
Volume_mute_toggle	D	Trigger to toggle volume mute.
[Volume_mute_set]	D	Trigger to Set Volume mute to muted.
[volume_mute_reset]	D	Trigger to Reset Volume mute to unmuted.
HDMI_1	D	Trigger to Change input to HDMI 1
HDMI_2	D	Trigger to Change input to HDMI 2
HDMI_3	D	Trigger to change input to HDMI 3
[OSD_4_3]	D	Trigger to change content aspect ratio to 4:3
[OSD_16_9]	D	Trigger to change content aspect ratio to 16:9
[OSD_Full_Screen]	D	Trigger to change content to Full Screen aspect
[OSD_Original]	D	Trigger to change content to original aspect
[Color_Standard]	D	Trigger to set color to Standard Color
[Color_Warm]	D	Trigger to set color to warm color
[Color_Cold]	D	Trigger to set color to Cold color
[Color_User]	D	Trigger to set color to User set color.
[Brightness_Up]	D	Trigger to increase brightness. CRN PCON500 has 10 brightness steps 0-100db by 10db steps.
[Brightness_down]	D	Trigger to decrease brightness. CRN PCON500 has 10 brightness steps 0-100db by 10db steps.
[Contrast_up]	D	Trigger to increase contrast. CRN PCON500 has 4 contrast steps 0-100db by 25db steps.
[Contrast_down]	D	Trigger to decrease contrast. CRN PCON500 has 4 contrast steps 0-100db by 25db steps.

FEEDBACK		
TX$	S	Serial Send. Connect to CRN PCON500 Connection symbol to send serial commands to CRN PCON500
[Device_status_fb]	A	Reports Device State as Analog number: 1d: idle Able to Receive 2d: Busy unable to receive 3d: Device Abnormal
[idle_able_to_receive_fb]	D	When digital feedback is high system is idle and ready to receive commands
[Busy_Unable_to_receive_fb]	D	When digital feedback is high system is busy and unable to receive commands.
[Device_Abnormal_fb]	D	When digital feedback is high system is in a Abnormal state and unable to receive commands.
[Power_on_fb]	D	Digital Feedback. When digital is high system is reporting as on.
[Power_off_fb]	D	Digital Feedback. When digital is high system is reporting as off.
Volume_level_fb	A	Analog Feedback reporting the volume level.
Volume_mute_fb	D	Digital Feedback. When digital is high system is reporting that the volume is muted.
HDMI_1_fb	D	Digital Feedback. When digital is high system is reporting that the system source is set to HDMI 1
HDMI_2_fb	D	Digital Feedback. When digital is high system is reporting that the system source is set to HDMI 2
HDMI_3_fb	D	Digital Feedback. When digital is high system is reporting that the system source is set to HDMI 3
[OSD_4_3_fb]	D	Digital Feedback. When digital is high system is reporting that Content is set to be presented in 4:3 aspect ratio.
[OSD_16_9_fb]	D	Digital Feedback. When digital is high system is reporting that Content is set to be presented in 16:9 aspect ratio.
[OSD_Full_Screen_fb]	D	Digital Feedback. When digital is high system is reporting that Content is set to be presented in FullScreen aspect.
[OSD_Original_fb]	D	Digital Feedback. When digital is high system is reporting that Content is set to be presented in the original aspect of content.
[Color_Standard_fb]	D	Digital Feedback. When digital is high system is reporting that Color is set to the Standard color settings.
[Color_Warm_fb]	D	Digital Feedback. When digital is high system is reporting that Color is set to Warm color settings.

[Color_Cold_fb]	D	Digital Feedback. When digital is high system is reporting that Color is set to cold color settings.
[Color_User_fb]	D	Digital Feedback. When digital is high system is reporting that Color is set use User set color settings.
[Brightness_Level_fb]	A	Analog Feedback reporting the Brightness level.
[Contrast_Level_fb]	A	Analog Feedback reporting the Contrast level.