CRESTRON

I²P Certified Module

Partner: Powersoft
Model: M-Series
Device Type: Amplifier

CRESTRON
CERTIFIED **INTEGRATED** PARTNER

GENERAL INFORMATION:	
SIMPLWINDOWS NAME:	Powersoft M-Series v1.1.umc
CATEGORY:	Amplifier
VERSION:	V1.1
SUMMARY:	The module allows the control of the Powersoft M-Series amplifiers through UDP communication.
GENERAL NOTES:	The communication between Crestron and Powersoft is made via an UDP connection.
CRESTRON HARDWARE REQUIRED:	Processor with an ethernet port to control the M-Series.
SETUP OF CRESTRON HARDWARE:	UDP port 8002
VENDOR FIRMWARE:	V1.0.0 – Date 19 Apr 2012
VENDOR SETUP:	PRO2 connected to the M-Series through standard UDP connection.
CABLE DIAGRAM:	Standard CAT5 cable

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CONTROL:

Req_Info	D	Pulse to request all the information from the connected device
Req_VolStatus	D	Pulse to request the volume status of the active channels
PwrON	D	Pulse to turn on the device
PwrOFF	D	Pulse to turn off the device
PwrToggle	D	Pulse to toggle power on/off
ChMuteYes[x]	D	Pulse to mute the audio channel X
ChMuteNo[x]	D	Pulse to unmute the audio channel X
ChMuteToggle[x]	D	Pulse to toggle mute/unmute the audio channel X
ChVol_P[x]	D	A high level will regulate the volume channel X up
ChVol_M[x]	D	A high level will regulate the volume channel X down
Preset1[1..4]	D	Pulse to recall preset1..4 on module 0
LedBlink[1]	D	Pulse to let the front panel leds blink
Preset2[1..4]	D	Pulse to recall preset1..4 on module 1
LedBlink[2]	D	Pulse to let the front panel leds blink
PollEnable	D	A high level on this input enables the continuous poll of the device, a single pulse execute it just 1 time
Rx$	S	Serial data arriving from the device, to be connected to the UDP Rx output.

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FEEDBACK:		
SystemBusy_fb	D	High to indicate that the module is busy and no other commands can be sent
TxRxBusy_fb	D	High to indicate that there is activity on the communication link
ConnStatus$	S	Indicates the status of the connection
DiscoveryStringOut$	S	When a discovery string is received it is displayed here
FirmwareInfo$	S	Here it is indicated the firmware version of the device
BoardSerial$	S	Here it is indicated the serial number of the device board
_2ChanOut_fb	D	High to indicate that the device is a 2 channel equipped
_4ChanOut_fb	D	High to indicate that the device is a 4 channel equipped
PwrStatus_fb	D	High to indicate that the device is powered ON
Ready[1..2]	D	High to indicate that the module 0..1 is ready
VextState[1..2]	D	High to indicate that the external voltage is present on module 0..1
Imeter1[1..2]	A	Analog value containing the last current level in channel1 or 3 (Amp/10)
Vmeter1[1..2]	A	Analog value containing the last voltage level in channel1 or 3 (Volt/10)
Imeter2[1..2]	A	Analog value containing the last current level in channel2 or 4 (Amp/10)
Vmeter2[1..2]	A	Analog value containing the last voltage level in channel2 or 4 (Volt/10)
Temperature[1..2]	A	It indicates the internal temperature value of the module 0..1 (°C/10)
Irms1[1..2]	A	It indicates the effective current value on channel 1 or 3 (Amp/10)
Irms2[1..2]	A	It indicates the effective current value on channel 2 or 4 (Amp/10)
Impedance1[1..2]	A	It indicates the calculated impedance value on channel 1 or 3 (Ohm/10)
Impedance2[1..2]	A	It indicates the calculated impedance value on channel 2 or 4 (Ohm/10)
Vaux1[1..2]	A	It indicates the effective auxiliary voltage value on channel 1or 3 if present (Volt/100)
Vaux2[1..2]	A	It indicates the effective auxiliary voltage value on channel 2 or 4 if present (Volt/100)

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ProtVauxM[1..2]	D	If high it means that the Vaux- is outside a safe value
ProtVauxP[1..2]	D	If high it means that the Vaux+ is outside a safe value
ProtIavg1[1..2]	D	If high it means that the Irms of channel1 is outside a safe value
ProtIavg2[1..2]	D	If high it means that the Irms of channe2 is outside a safe value
TemperatureM1_Status$	S	It indicates the temperature protection status on module 0
Ch1_Status$	S	It indicates channel1 protection status
Ch2_Status$	S	It indicates channel2 protection status
ChannelDisabled[1..4]	D	High level indicates that channel 1..4 is disabled, this signal is useful to blank the graphic of disabled channels
VoldB$[1..4]	S	String Indicating the actual volume level of channel 1..4 in dB
Vol_fb[1..4]	A	Analog value of actual volume level of channel 1..4 in percent steps 0% = -40dB 100% = +6dB
MuteStatus_fb[1..4]	D	High level indicates channel 1..4 is muted
Preset1_fb[1..4]	D	High level indicates module 0 has preset 1..4 active
Preset2_fb[1..4]	D	High level indicates module 1 has preset 1..4 active
Tx$	S	Serial data going towards the device, to be connected to the UDP Tx input.

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PARAMETERS:

Device_ID	Decimal	2 decimal digits indicating the device ID.
Poll_Interval	Time (sec)	Time between 2 poll pulses (not less than 10 secs)

TESTING:

OPS USED FOR TESTING:	PRO2 4.007.0004
SIMPL WINDOWS USED FOR TESTING:	V3.11.15
CRESTRON DB USED FOR TESTING:	V35.00.004.00
DEVICE DB USED FOR TESTING:	V46.00.002.00
SAMPLE PROGRAM:	Powersoft M-Series v1.1 PRO2 DEMO.smw
REVISION HISTORY:	V. 1.1