



Manufacturer: Powersoft Audio  
 Model: X Series  
 Device Type: Audio amplifier

### CONTACT SUPPORT

COMPANY NAME:	Compostella Jimmy
SUPPORT CONTACT:	Compostella Jimmy
EMAIL ADDRESS:	<a href="mailto:program@domowork.com">program@domowork.com</a> - <a href="mailto:compostella.jimmy@gmail.com">compostella.jimmy@gmail.com</a>
PHONE:	0039 3409890453
ADDRESS:	Via villaggio S.Antonio 3/A - Thiene VI - Italy
NOTES:	

### GENERAL INFORMATION

SIMPLWINDOWS NAME:	Powersoft_Audio_X_Series.umc
CATEGORY:	Powersoft Audio
VERSION:	1.0
SUMMARY:	Module for control all Powersoft Audio amplifiers with X Series firmware installed.
GENERAL NOTES:	Don't use broadcast address on UDP connection
CRESTRON HARDWARE REQUIRED:	3-Series or 2-Series with Ethernet card installed
SETUP OF CRESTRON HARDWARE:	Connection: UDP on port 1234
VENDOR FIRMWARE:	Higher 1.5.7
VENDOR SETUP:	RMC3 connected to X Series device (Ottocanali 12K4) with Cat5 cable troughh ethernet switch.
CABLE DIAGRAM:	Use standard Cat 5 ethernet cable.



Manufacturer: Powersoft Audio  
 Model: X Series  
 Device Type: Audio amplifier

## CONTROL:

<u>Signal/Function Name</u>	<u>D,S,A</u>	<u>Digital, Serial, Analog signal property definition.</u>
Init_System	D	Pulse to init the module again. Init system is already call on module startup
Enable_Polling	D	Set 1 to enable polling for alarm and live status reporting
Power_On_System	D	Pulse to power ON device.
Power_Off_System	D	Pulse to power OFF device
Read_Standby_Status	D	Pulse to get standby status
Read_Info	D	Pulse to read device informarion (Model – Serial number - firmware)
Ping	D	Pulse to set focus mode.
Read_Gains_Mutes	D	Pulse to get current input and output channel gains and mutes status
Mute_On_Input_X	D	Pulse to set mute ON for input channel X( X from 1 to 8)
Mute_Off_Input_X	D	Pulse to set mute OFF for input channel X( X from 1 to 8)
ai_Input_X_Gain	A	Set gain level for input channel X(X from 1 to 8). Accepted value from -6000d to +1500d
Mute_On_Output_X	D	Pulse to set mute ON for output channel X( X from 1 to 8)
Mute_Off_Output_X	D	Pulse to set mute OFF for output channel X( X from 1 to 8)
ai_Output_X_Gain	A	Set gain level for input channel X(X from 1 to 8). Accepted value from -6000d to +1500d
ai_Preset_Number	A	Preset number . Value from 1d to 56d
Call_Preset	A	Pulse to call the correspondig preset number set by ai_Preset_Number
Save_Preset	D	Pulse to save current input/output value on preset number set by ai_Preset_Number.
Save_Preset_As	D	Pulse to Save_Preset with name specified on Preset_Name\$ input



Manufacturer: Powersoft Audio  
 Model: X Series  
 Device Type: Audio amplifier

Preset_Name\$	D	Sets the name that will be used to store the preset. Only using Save_Preset_As command
Read_Preset_Info	S	Pulse to set exposure mode.
Remove_Preset	D	Pulse to set metering. Ignored if Exposure Mode is set to manual.
Read_Presets_Available	D	Pulse to set metering. Ignored if Exposure Mode is set to manual.
Input_X_Select	D	Pulse to select input X(X from 1 to 8) to set ai_Input_Gain
Output_X_Select	D	Pulse to select output X(X from 1 to 8) to set ai_Input_Gain
ai_Input_Gain	D	Set inputs value for selected input. Value from -6000d to +1500d
ai_Output_Gain	A	Set outputs value for selected input. Value from -6000d to +1500d
Set_Mute_On	D	High = set mute on for input and output channel
Set_Mute_Off	D	High = set mute off for input and output channel
Set_Value	D	Pulse to set multi value
ai_Channel_Pilot_Tone_Generator	A	Set the current channel used to read pilot tone generator. Value from 1 to 8
Read_Pilot_Tone_Generator	D	Pulse to read pilot tone generator settings
Set_On_Pilot_Tone_Generator	D	Pulse to set on pilot tone generator
Set_Off_Pilot_Tone_Generator	D	Pulse to set off pilot tone generator
ai_Channel_Pilot_Tone_Detection	A	Set the current channel used to read pilot tone detection. Value from 1 to 8
Read_Pilot_Tone_Detection	D	Pulse to read pilot tone detection settings
Set_On_Pilot_Tone_Detection	D	Pulse to set on pilot tone detection
Set_Off_Pilot_Tone_Detection	D	Pulse to set off pilot tone detection
ai_Channel_Load_Monitor	A	Set the current channel used to read load monitor. Value from 1 to 8
Read_Load_Monitor	D	Pulse to read load monitor settings



Manufacturer: Powersoft Audio  
 Model: X Series  
 Device Type: Audio amplifier

Set_On_Load_Monitor	D	Pulse to set on load monitor
Set_Off_Load_Monitor	D	Pulse to set off load monitor
ai_Channel_Output_Load_Detect	A	Set the current channel used to read load detect. Value from 1 to 8
Read_Load_Detect	D	Pulse to read load detect settings
Set_On_Load_Detect	D	Pulse to set on load detect
Set_Off_Load_Detect	D	Pulse to set off load detect
Read_Alarm_and_Live_Status	D	Pulse to read all 8 channel live status and allarm
Read_All_Alarms	D	Pres to read all alarm of device
RX\$	S	Connect to RX of UDP Connection

**FEEDBACK:**

Init_System_Busy	D	Indicates the current focus mode.
aoTotal_Output_Channel_Managed	A	Indicates the current zoom speed. For a gauge object on touchpanel..
fb_System_is_On	A	Indicates the current pan speed. For a gauge object on touchpanel.
fb_System_is_Off	A	Indicates the current tilt speed. For a gauge object on touchpanel.
System_Info\$	S	Indicates the current brightness setting.
Message_to_GUI\$	S	Indicates the zone 2 volume level. For a gauge object on touchpanel.
fb_Ping	S	Indicates the current AGC gain setting.
fb_Mute_On_Input_X	S	Indicates the current noise reduction setting.
ao_Input_X_Gain	D	Report the current input gain value for selected input. Value from -6000d to +1500d
fb_Mute_On_Output_X	D	Indicates the current auto slow shutter speed.



Manufacturer: Powersoft Audio  
 Model: X Series  
 Device Type: Audio amplifier

ao_Output_X_Gain	A	Report the current output gain value for selected output.Value from -6000d to 1500d
fb_Preset_Loaded	D	Report if preset called is loaded correct. Pulse for 3 second
fb_Preset_Saved	D	Report if preset save command is complete. Pulse for 3 second
fb_Preset_Removed	D	Indicates the current exposure mode.
Preset_Info\$	D	Indicates the current metering.
fb_Preset_X_Avaliable	D	Indicates the current white balance.
fb_Input_X_Selected	D	Report selected input X is selected for multiple value command
fb_Output_X_Selected	D	Report selected input X is selected for multiple value command
Multiple_Value_Write_Completed	D	Report if Multiple value command is Completed. Pulse for 3 seconds
fb_PT_Generator_is_On	D	High = Report if PT Generator is On
ao_PT_Generator_Freq_Hz	A	Is the freq of the generated pilot tone
ao_PT_Generator_Amp_Volt	A	Is the amplitude pilot tone level in tenths of volts
fb_PT_Detection_is_On	D	High = Report if PT Detection is On
ao_PT_Detection_Freq_Hz	A	Is the freq of the generated pilot tone (in Hz)
ao_PT_Detection_THL	A	Is low threshold (Vrms) in tenths of volts
ao_PT_Detection_THH	A	Is high threshold (Vrms) in tenths of volts
fb_Load_Monitor_is_On	D	High = Report if PT Load monitor is On
ao_LM_Freq_Hz	A	Is the freq of the generated pilot tone (in Hz)
ao_LM_THL	A	Is low threshold (ohm) in tenths of ohms
ao_LM_THH	A	Is high threshold (ohm) in tenths of ohms
fb_LD_is_On	D	High = Report if Load detection is On



Manufacturer: Powersoft Audio  
 Model: X Series  
 Device Type: Audio amplifier

ao_LD_THL	A	Is low threshold (ohm) in tenths of ohms
ao_LD_THH	A	Is high threshold (ohm) in tenths of ohms
fb_PT_Validity_X	D	High = Report if X_RMS and X_DETECTED is valid for channel X
fb_PT_NI_Validity_X	D	High = Report if PT NI Validity is OK for channel X
fb_NI_Validity_X	D	High = Report if NI Validity is OK for channel X
fb_PT_Detected_X	D	High = Report if PT is detected for channel X
fb_PT_NI_Detected_X	D	High = Report if PT NI is detected for channel X
fb_NI_Detected_X	D	High = Report if NI is detected for channel X
ao_PT_RMS_X	A	Report PT RMS value for channel X
ao_PT_NI_RMS_X	A	Report measured broadband nominal impedance value for channel X .In tenths of Ohm
ao_NI_RMS_X	A	Report NI RMS value for channel X
ao_DIP_SWITCH_X	A	Report dip switch settings for channel X - <i>for Ottocanali DSP+D only</i> Value: 0d: LOW_Z 1d: HIGH_Z_70 2d: HIGH_Z_100 3d: Out of range value
ao_ALLARMS_X	A	Report if there is almost 1 alarm for channel X.
ao_SELECTED_IN_X	A	Report current input for channel X. Value : 0d: ANALOG 1d: AES3 2d: DANTE 1-8 3d: DANTE 9-16
Relay_Channel_X_is_On	D	High = report relay status for channel X



Manufacturer: Powersoft Audio  
 Model: X Series  
 Device Type: Audio amplifier

Channel_X_Other_Fault	D	High = report other fault for channel X
Channel_X_AUX_Current_Fault	D	High = report AUX current fault for channel X
Channel_X_Rail_Voltage_Fault	D	High = report rail voltage fault for channel X
Channel_X_Over_Temperature	D	High = report over temperature for channel X
Channel_X_Active_Termal_SOA	D	High = report active termal soa for channel X
Channel_X_Input_Clip	D	High = report Input clip for channel X
GA_High_Over_Temperature	D	High = report global alarm high over temperature
GA_Moderate_Over_Temperature	D	High = report global alarm moderate temperature
GA_Fan_Fault	D	High = report global alarm fan fault
GA_Power_Supply_Over_Temperature	D	High = report global alarm power supply over temperature
GA_Digi_board_Over_Temperature	D	High = report global alarm digital board over temperature
GA_AUX_Voltage_fault	D	High = report global alarm aux voltage fault
GA_DA_Converter_Configutation_fault	D	High = report global alarm DA converter configuration fault
GA_AD_Converter_Configutation_fault	D	High = report global alarm AD converter configuration fault
GA_Mains_Phases_detect_error	D	High = report global alarm mains phases error
TX\$	S	Connect to TX\$ of UDP Connection



Manufacturer: Powersoft Audio  
Model: X Series  
Device Type: Audio amplifier

### TESTING:

OPS USED FOR TESTING:	1.501.0105
SIMPL WINDOWS USED FOR TESTING:	4.05.04
DEVICE DB USED FOR TESTING:	81.05.003.00
CRES DB USED FOR TESTING:	61.05.007.00
SYMBOL LIBRARY USED FOR TESTING:	1018
SAMPLE PROGRAM:	RMC3: powersoft_audio_X_Series_Demo.swm
REVISION HISTORY:	1.0