



d&b audiotechnik : D6 and D12

This module controls the d&b audiotechnik D6 and D12 power amplifiers together with the d&b RxPresort module.

GENERAL INFORMATION

SIMPLWINDOWS NAME:	d&b D6_D12_Post
CATEGORY:	Custom / d&b audiotechnik
VERSION:	2.0
SUMMARY:	This module controls the d&b D6 and D12 power amplifiers together with the d&b RxPresort module. The "canSubnet" parameter and the index of "rxPreAmp" and "txPreAmp" arrays of the d&b RxPresort define the dbCAN ID of the D6 or D12 to be controlled.
GENERAL NOTES:	<p>Feedback within the d&b remote network must be polled. Polling for this feedback can be rather processor unfriendly. That is why the module includes a poll digital input for each parameter. Check demo program on how to use these inputs.</p> <p>When a parameter is changed, the module polls for the feedback automatically. So polling is only necessary when a parameter is changed indirectly. An indirect change means, for example, switching between AmpPresets or changes made by controls other than Crestron (e.g. PC).</p>
CRESTRON HARDWARE REQUIRED:	2-Series processor
SETUP OF CRESTRON HARDWARE:	CP2E with XPANEL
VENDOR FIRMWARE:	D6 V1.01 / D12 V2.15
VENDOR SETUP:	A combination of D6, D12 and/or E-PAC amplifiers hooked up together via the CAN network and the R70 Ethernet to CAN interface which forms the interface to Crestron.
CABLE DIAGRAM:	For setting up a d&b remote network, please refer to TI 312 available at www.dbaudio.com .


CONTROL:

Power_On	D	Pulse to power on the amplifier.
Power_Off	D	Pulse to power off the amplifier.
Power_Poll	D	Pulse to poll for the current power status of the amplifier.
PowerOk_Poll	D	Pulse to poll for the current power status of the amplifier.
MuteA_On	D	Pulse to mute channel A.
MuteA_Off	D	Pulse to unmute channel A.
MuteA_Poll	D	Pulse to poll for the current mute status of channel A.
MuteB_On	D	Pulse to mute channel B.
MuteB_Off	D	Pulse to unmute channel B.
MuteB_Poll	D	Pulse to poll for the current mute status of channel B.
Error_Poll	D	Pulse to poll for the error status of the amplifier.
AmpPreset_Poll	D	Pulse to poll for the AmpPreset status.
AmpPreset1_Load	D	Pulse to switch to AmpPreset 1.
AmpPreset2_Load	D	Pulse to switch to AmpPreset 2.
AmpPreset3_Load	D	Pulse to switch to AmpPreset 3.
AmpPreset4_Load	D	Pulse to switch to AmpPreset 4.
AmpPreset5_Load	D	Pulse to switch to AmpPreset 5.
AmpPreset6_Load	D	Pulse to switch to AmpPreset 6.
AmpPreset7_Load	D	Pulse to switch to AmpPreset 7.
AmpPreset8_Load	D	Pulse to switch to AmpPreset 8.
AmpPreset9_Load	D	Pulse to switch to AmpPreset 9.
AmpPreset10_Load_Backup13	D	Pulse to switch to AmpPreset 10 and back up the current settings to



		AmpPreset 13.
AmpPreset11_Load_Backup14	D	Pulse to switch to AmpPreset 11 and back up the current settings to AmpPreset 14.
AmpPreset12_Load_Backup15	D	Pulse to switch to AmpPreset 12 and back up the current settings to AmpPreset 15.
AmPreset13_Restore	D	Pulse to switch back to the settings backed up prior to loading AmpPreset 10.
AmPreset14_Restore	D	Pulse to switch back to the settings backed up prior to loading AmpPreset 11.
AmPreset15_Restore	D	Pulse to switch back to the settings backed up prior to loading AmpPreset 12.
DeviceName_Poll	D	Pulse to poll for the DeviceName.
PotiLevelA_Poll	D	Pulse to poll for the current level of channel A.
PotiLevelB_Poll	D	Pulse to poll for the current level of channel B.
PotiLevelA	A	Sets the level for channel A. Ranges from -575d to 60d. Check demo program for proper use.
PotiLevelB	A	Sets the level for channel B. Ranges from -575d to 60d. Check demo program for proper use.
canSubnet	A	To be connected to canSubnetOut on the d&b RxPre module.
rxPost	S	To be connected to rxPreAmp\$[x] of the d&b RxPresort module. The output index (x) defines the Device ID. Check demo program for proper use.

FEEDBACK:

Device_Online_Pulse	D	Pulses for each incoming data to this device. They can be used together with a cyclical polling (e.g. for an error) to verify that the device/connection is OK. Check the demo program for proper use.
Power_OnOff	D	High when power is currently on.
PowerOk	D	High when the amplifier is powered. This is the status of the device as compared to Power_OnOff which is the status of the power switch.
MuteA_OnOff	D	High when channel A is muted.
MuteB_OnOff	D	High when channel B is muted.
GeneralError	D	High when any error occurred.



ChannelErrorA	D	High when an error occurred on channel A.
ChannelErrorB	D	High when an error occurred on channel B.
AmpPreset_Modified	D	High when a setting has changed compared to the last AmpPreset loaded.
AmpPreset_Number	A	Number of the last AmpPreset selected.
PotiLevelA_FB	A	Current level of channel A. Ranges from -57.5d to 60d (-57.5 to +6).
PotiLevelB_FB	A	Current level of channel B. Ranges from -57.5d to 60d (-57.5 to +6).
DeviceErrorNumber	A	Number describing a device error that occurred.
ChannelErrorNumberA	A	Number describing an error that occurred on channel A.
ChannelErrorNumberB	A	Number describing an error that occurred on channel B.
DeviceErrorText	S	Brief description of the device error.
ChannelErrorTextA	S	Brief description of the error on channel A.
ChannelErrorTextB	S	Brief description of the error on channel B.
AmpPresetName	S	Name of the last AmpPreset selected.
Device_Name	S	Device name of the amplifier.
txPost	S	To be connected to txPreAmp[x] of the d&b RxPresort module. The input index (x) defines the Device ID. Check demo program for proper use.

TESTING:

OPS USED FOR TESTING:	V 3.155
COMPILER USED FOR TESTING:	V 2.07.22
SAMPLE PROGRAM:	DB D12 D6 EPAC Demo Program
REVISION HISTORY:	V 2.0 (Martin Renz d&b)

