



Manufacturer: d&b audiotechnik

Model: 5D

Device Type: Amplifier

CONTACT SUPPORT:

COMPANY NAME:	d&b audiotechnik GmbH & Co. KG
SUPPORT CONTACT:	Support
EMAIL ADDRESS:	support@dbaudio.com
PHONE:	+49 7191 9669-0
ADDRESS:	d&b audiotechnik GmbH & Co. KG, Eugen-Adolf-Str. 134, 71522 Backnang, Germany
NOTES:	

GENERAL INFORMATION

SIMPLWINDOWS NAME:	DB yD amplifier
CATEGORY:	Device Interface
VERSION:	1.6.1
SUMMARY:	This module controls a d&b audiotechnik four channel amplifier 5D over Ethernet.
GENERAL NOTES:	<p>To enable control and monitoring of different functions of the amplifier enable the given parameter of the module. OFF means the functions corresponding are not invoked for control and feedback. The amplifiers must be configured to use the static IP address of the module. During the initialize process of the module the selected functions get registered for monitoring which means the amplifiers must be powered before. The Enable_KeepAlive parameter is a additional check if the TCP/IP connection is still working even if no traffic is between the controller and the amplifier.</p> <p>When changing a parameter (for example "mute channel A") the amplifier confirms this command.</p>
CRESTRON HARDWARE REQUIRED:	3-Series control engine or 4-Series control engine
SETUP OF CRESTRON HARDWARE:	CP3 or CP4 with XPanel (SMART graphics)
VENDOR FIRMWARE:	5D with Firmware V1.00.00 or higher

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 15 Volvo Drive · Rockleigh, NJ 07647
 800.237.2041 / 201.767.3400

<http://application.market.com>

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VENDOR SETUP:	A combination of 5D amplifiers connected via Ethernet.
CABLE DIAGRAM:	

CONTROL:

<u>Signal/Function Name</u>	<u>D,S,A</u>	<u>Digital, Serial, Analog signal property definition.</u>
connect	D	Set High to establish the TCP/IP connection to the set IP address
Power	D	Pulse to toggle the power state
Mute[x]	D	Pulse to toggle the mute of the channel x (1 = A .. 4 = C)
InputMonAnalog[x]	D	Pulse to toggle the Input monitoring at the analog input x (1 to 4)
InputMonDante[x]	D	Pulse to toggle the Input monitoring at the dante input x (1 to 4)
LoadMon[x]	D	Pulse to toggle the Load monitoring for channel x (1 = A .. 4 = C)
Gain[x]	A	Sets the potentiometer level for channel x (1 = A .. 4 = C). Ranges from -575d to 60d (-57.5 to +6). Check demo program for proper use

FEEDBACK:

connect_fb	D	High when connect toggled to high
isConnected_fb	D	High when the TCP/IP connection is established
GeneralError_fb	D	High when a general error occurred (device or channel error)
DeviceError_fb	D	High when a device error occurred (no channel error)
KeepAlive_fb	D	High for about one second when a KeepAlive feedback is received
Power_fb	D	High when Power is on, Low when Power is off
PowerOk_fb	D	High when power is "OK". Then the amplifier is ready to operate



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Mute_fb[x]	D	High when the channel x (1 = A .. 4 = C) is muted (feedback from device)
ChannelError_fb[x]	D	High when the channel x (1 = A .. 4 = C) has an error
InputMonAnalog_fb[x]	D	High when the Input monitoring at the analog input x (1 to 4) is activated
InputMonDante_fb[x]	D	High when the Input monitoring at the Dante input x (1 to 4) is activated
InputMonitoringAnalogErr_fb[x]	D	High when Input monitoring detects an error at the analog input x (1 to 4)
InputMonitoringDanteErr_fb[x]	D	High when Input monitoring detects an error at the Dante input x (1 to 4)
LoadMon_fb[x]	D	High when the Load monitoring at the Channel x (1 to 4) is activated
DeviceName_fb	S	Name of the device
DeviceErrorText_fb	S	Text describing the device error.
IP_Text_fb	S	IP address as string
Debug_fb	S	Debug infos for development
ChannelErrorText_fb[x]	S	Text describing the error at Channel x (1 to 4)
Gain_fb[x]	A	Gain for channel x (1 = A .. 4 = C). Ranges from -57.5d to 60d (-57.5 to +6). Check demo program for proper use
GainText_fb[x]	S	Gain for channel x (1 = A .. 4 = C) as string.
ChannelTemperatur_fb[x]	A	Temperature for channel x (1 = A .. 4 = C)



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PARAMETERS:

Enable_ChannelControl	B	If "ON" all functions which are channel related and not separate enabled by one of the following parameters.
Enable_Load_Monitoring	B	If "ON" all functions with the Name "LoadMon..." are enabled for remote and get read and monitored.
Enable_Input_Monitoring	B	If "ON" all functions with the Name "InputMon..." are enabled for remote and get read and monitored.
Enable_KeepAlive	B	If "ON" a KeepAlive message is continuous exchanged between the controller and the amplifier. If four messages get lost the TCP/IP connection is disconnected.
IP_Address	S	IP address of the amplifier.
Amplifier_Model	A	Select the amplifier type 5D
Enable_Logging	B	If "ON" the module sends logging information to the crestron text console
Logging_Level	A	Select the Level for the log info ERROR = 1, WARNING = 2, INFO = 3, DEBUG = 4

TESTING:

OPS USED FOR TESTING:	CP3 v1.8000.4522.24170 / CP4 2.8000.00003.01
SIMPL WINDOWS USED FOR TESTING:	4.17
DEVICE DB USED FOR TESTING:	200.11000.002.00
CRES DB USED FOR TESTING:	207.0500.005.00
SYMBOL LIBRARY USED FOR TESTING:	1151
SAMPLE PROGRAM:	OcaDxControl.smw
REVISION HISTORY:	V. 1.6 5D support