

## DBX: ZonePro 640-641

This module controls a DBX ZonePro 640 or 641 over Rs-232



| GENERAL INFORMATION       |   |
|---------------------------|---|
| <b>SIMPLWINDOWS NAME:</b> | Dbx ZonePRO 640-641   |
| <b>CATEGORY:</b>          | Device Interface  |
| <b>VERSION:</b>           | V2.0  |
| <b>SUMMARY:</b>           | This module controls a DBX ZonePro 640 or 641 over Rs-232   |
| <b>GENERAL NOTES:</b>     | <p>This module is meant for a single dbx ZonePRO 640/641.</p> <p>The ZonePRO 640/641 has 4 outputs.<br/>For each output you can select the input, adjust the volume and toggle the mute status.</p> <p>The module handles live - feedback. So whenever something is changed manually on the ZonePRO, the module will receive an update and adjusts its outputs. In order to enable live-feedback, you have to pulse the enable\$ input one every time the ZonePRO is rebooted.</p> <p>NOTE: When statuses are changed using the module, the feedback of the module is simulated. When statuses are changed using the ZonePRO, the feedback is real.</p> <p>Usually the address parameters will be:</p> <ul style="list-style-type: none"><li>AddressZone1: \x01\x05\x00\x10 (Router Zone1)</li><li>AddressZone2: \x01\x05\x01\x11 (Router Zone2)</li><li>AddressZone3: \x01\x05\x02\x12 (Router Zone3)</li><li>AddressZone4: \x01\x05\x03\x12 (Router Zone4)</li><li>AddressInput1: \x01\x01\x00\x00 (Ch1 Input Volume)</li><li>AddressInput2: \x01\x01\x01\x01 (Ch2 Input Volume)</li><li>AddressInput3: \x01\x01\x02\x02 (Ch3 Input Volume)</li><li>AddressInput4: \x01\x01\x03\x03 (Ch4 Input Volume)</li><li>AddressInput5: \x01\x01\x04\x04 (Ch5 Input Volume)</li><li>AddressInput6: \x01\x01\x05\x05 (Ch6 Input Volume)</li></ul> <p>However, since these addresses will differ depending on the unit's configuration, please ask the dbx installer for the correct information. See <a href="http://www.dbxpro.com/Download/index.htm">http://www.dbxpro.com/Download/index.htm</a> for help documents showing how to get these objectID's, and for detailed protocol specifications</p> <p><i>"If the default configuration is not loaded into the ZonePRO, then the user must manually enter the Object ID addresses for each device. To get the object ID address, start the PC software for ZonePRO. The easiest way to get the Object ID in <b>decimal</b> format is to click on the device in the ZonePRO program screen and press &lt;Ctrl&gt;+&lt;Shift&gt;+&lt;o&gt; and a dialog box will appear with the correct address. Note that bit 0 is presented at the top and bit 3 at the bottom of the dialog box. Enter this Object ID address in the Crestron module parameter field in <b>HEX</b> as b3,b2,b1,b0.</i></p> <p><i>Another easy way to get the Object ID address in hex is to click on the device symbol in the ZonePRO Designer window and press Ctrl + Shift + T to open the Network Trace Window. Click on the ZonePRO object you want the address for in the software. Change the value of the mute button, volume control, or any other control you are interested in and look for the first row of "MULTSVSET" in the Network Trace Window. Click on this line and look in the window "Frame Data". The object ID will always be the 8th, 9th, 10th, and 11th byte. Enter this 4 byte value into the address parameter on the front of the Crestron module. Repeat this for every address parameter on the front of the module." - DBX</i></p> |



|                                    |   |
|------------------------------------|---|
| <b>CRESTRON HARDWARE REQUIRED:</b> | 2-series of X-series processor                          |
| <b>SETUP OF CRESTRON HARDWARE:</b> | Pro2 with TPS-6000<br>Com Port Settings: 57600, 8, 1, N |
| <b>VENDOR FIRMWARE:</b>            | 29-1.010  |
| <b>VENDOR SETUP:</b>               | ZonePRO 640   |

**CABLE DIAGRAM:**

### CNSP-532

|             |                       |
|-------------|-----------------------|
| Rev:-       | Quantity              |
| CNSP-532    | Order                 |
| Required By | Length <b>15</b> feet |

Crestron Electronics, Inc.  
15 Volvo Drive  
Rockleigh, NJ 07647

| CONTROL:                    |   |  |
|-----------------------------|---|--|
| <b>Enable_Live_Feedback</b> | D | Pulse to enable live-feedback. Pulse once every time the processor restarts  |
| <b>Disco</b>                | D | Pulse to send a disco message. The ZonePRO will then report back with its Node Address. Before this, all commands will be send to default node address \x00\x30 (48 decimal) |
| <b>Mute_On_ZoneX</b>        | D | Pulse to Zone X muting on  |



|                             |   |  |
|-----------------------------|---|--|
| <b>Mute_Off_ZoneX</b>       | D | Pulse to turn zone X mute off  |
| <b>Set_Input_ZoneX</b>      | A | Sets the input for zone X<br>1d: Lobby Mic<br>2d: Phone Page<br>3d: CD<br>4d: Satellite<br>5d: TV<br>6d: Jukebox |
| <b>Set_Volume_ZoneX</b>     | A | Sets the volume for zone X<br>0d (0%) = -inf (less then -60 dB)<br>65535d (100%) = 20.0 dB                       |
| <b>Set_Volume_Input_ChX</b> | A | Sets the volume for input channel X<br>0d (0%) = -inf (less then -60 dB)<br>65535d (100%) = 20.0 dB              |
| <b>From_Device</b>          | S | To be connected to rx of the Com Port  |

**FEEDBACK:**

|                                 |   |   |
|---------------------------------|---|---|
| <b>Mute_Is_On_ZoneX</b>         | D | High when zone X is muted   |
| <b>Selected_Input_ZoneX</b>     | A | Current input for zone X<br>1d: Lobby Mic<br>2d: Phone Page<br>3d: CD<br>4d: Satellite<br>5d: TV<br>6d: Jukebox |
| <b>Current_Volume_ZoneX</b>     | A | Current volume for zone X<br>0d (0%) = -inf (less then -60 dB)<br>65535d (100%) = 20.0 dB                       |
| <b>Current_Volume_Input_ChX</b> | A | Current volume for input channel X<br>0d (0%) = -inf (less then -60 dB)<br>65535d (100%) = 20.0 dB              |
| <b>To_Device</b>                | S | To be connected to tx of the Com Port   |

**PARAMETERS:**

|                 |   |   |
|-----------------|---|---|
| <b>AddressX</b> | S | The address to which the commands have to send to reach the appropriate control<br><br>Usually those will be: |
|-----------------|---|---|



|  |  |   |
|--|--|---|
|  |  | <p>AddressZone1: \x01\x05\x00\x10 (Router Zone1)<br/>         AddressZone2: \x01\x05\x01\x11 (Router Zone2)<br/>         AddressZone3: \x01\x05\x02\x12 (Router Zone3)<br/>         AddressZone4: \x01\x05\x03\x12 (Router Zone4)<br/>         AddressInput1: \x01\x01\x00\x00 (Ch1 Input Volume)<br/>         AddressInput2: \x01\x01\x01\x01 (Ch2 Input Volume)<br/>         AddressInput3: \x01\x01\x02\x02 (Ch3 Input Volume)<br/>         AddressInput4: \x01\x01\x03\x03 (Ch4 Input Volume)<br/>         AddressInput5: \x01\x01\x04\x04 (Ch5 Input Volume)<br/>         AddressInput6: \x01\x01\x05\x05 (Ch6 Input Volume)</p> <p>However, since these addresses will differ depending on the unit's configuration, please ask the dbx installer for the correct information. See <a href="http://www.dbxpro.com/Download/index.htm">http://www.dbxpro.com/Download/index.htm</a> for help documents showing how to get these objectID's, and for detailed protocol specifications</p> |
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**TESTING:**

|                                   |   |
|-----------------------------------|---|
| <b>OPS USED FOR TESTING:</b>      | V3.137  |
| <b>COMPILER USED FOR TESTING:</b> | V2.00.31  |
| <b>SAMPLE PROGRAM:</b>            | Dbx ZonePRO 640-641 Demo Program.smw  |
| <b>REVISION HISTORY:</b>          | <p>V. 1.0<br/>           - Creation</p> <p>V.2.0<br/>           - Changes made by DBX themselves to make the module more robust<br/>           - Added volume adjustment for input channels<br/>           - Standarized Demo Program and Help file</p> |
|                                   |   |