



Blustream Pro16 RTI Driver

HDBT[®] SUPPORTING
4K 18Gbps

Fully Configurable 8x8 and 16x16 HDBaseT™ Matrix



Supporting 4K HDR | HDCP 2.2 | Audio Breakout | HDMI 2.0

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Author(s): Richard Mullins

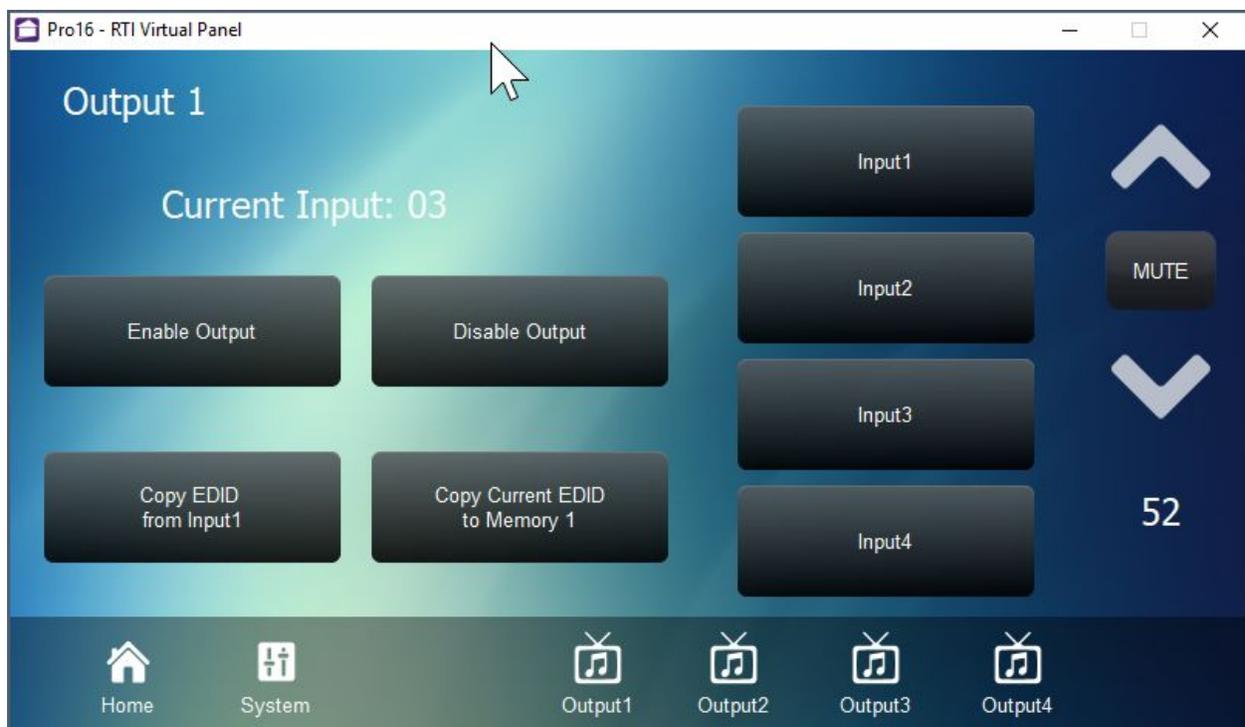
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Overview

The Blustream PRO16 RTI driver allows for control over the Pro series 8 or 16 zone units. You can configure the driver for the number of inputs and outputs you have and name them appropriately. This allows for quick and clear programming with the control and feedback for each zone grouped together.

The driver includes control of the zone input, volume and EDID settings. It also provides control over system power and presets.



Installation

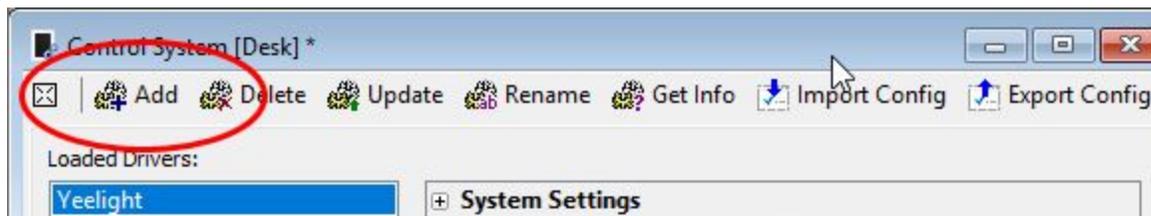
The zip file that included this documentation has the rtidriver file you will need to add. The first step is to download and extract the driver from the zip file. It doesn't matter where you store the file but we advise keeping them together.

The default location is Documents\Integration Designer\Control Drivers

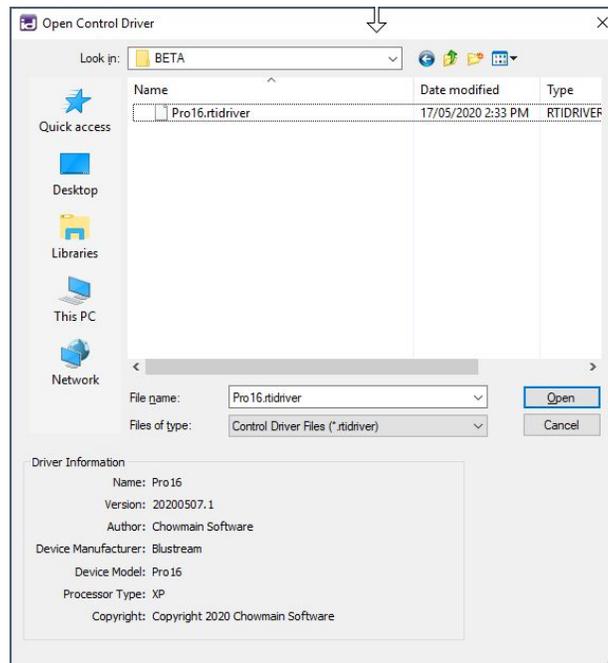
Select your processor from the System Workplace sidebar and select the Drivers tab at the bottom of the window (If you are using a KX3 in control mode then you might need to select 'Switch UI / Control Processor Mode' from the Device menu).

Add the driver

Click the Add button at the top of the driver window. The driver is now ready to configure or use.



Find the rtidriver file that you extracted from the zip file above. Click on Open when you have found the correct file.



The driver is now ready to use.

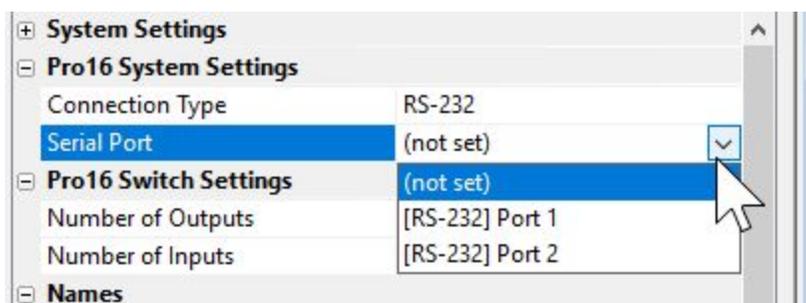
Driver Configuration

The driver requires several config options, starting with choosing between connecting using IP or Serial.

If you choose IP you need to enter an IP address and port number for the connection. The default port is 23 and can be left unless you have changed it.



If you choose Serial, you need to select the Serial port from the drop down list.



Once you have chosen the connection type, you need to select the number of outputs and inputs you are planning to use. When you select these additional fields will open up allowing you to enter a name for the displays and sources for each. These names will then be used in the System Functions and System Variables, making programming easier.

System Functions

System

The system parameters control the Pro16 unit as opposed to the Input and Output functions that are specific to one zone.

System Power ON

The power on function will turn the Pro16 unit on.

System Power OFF

The power off function will turn the Pro16 unit off.

Apply Preset

The Preset function will set the preconfigured preset to the one you have selected in the Preset parameter.

Output Functions

The output functions are specific to the selected output. There will be a group of these functions for each output you have defined in the configuration section.

Enable

The Disable function allows you to turn on this output. If the output is already enabled this will have no effect.

Disable

The Disable function allows you to turn off this output. If the output is already disabled this will have no effect.

Mute ON

The Mute ON function will mute the audio for this output.

Mute OFF

The Mute OFF function will deactivate the mute the for this output.

Mute Toggle

The Mute Toggle function will change the mute state to the opposite of what is currently set. If the mute is on this will turn it off and vice versa. This allows you to use a single button to control mute.

Volume UP

The Volume UP function will raise the volume by 1% for this output.

Volume DOWN

The Volume DOWN function will lower the volume by 1% for this output.

Volume Level

The Volume Level function allows you to set a specific volume for this output. You can attach this to a slider to allow setting a custom volume level.

Switch Input to Output

The Switch Input to Output function allows you to set the input to display for this output. The available inputs are determined by the number of inputs you've set in the configuration section. The inputs will be shown in a drop down with names corresponding to the ones you have set.

Copy EDID from Input

The Copy EDID from Input function allows you to copy the EDID from a specified input for use on this output.

Save EDID to Memory

The Save EDID to Memory function will copy the current EDID from this output to the specified memory location. There are two memory locations you can use and they can be selected using the drop down menu.

Input EDID Control

Set Default EDID

The Set Default EDID function allows you to select a specific EDID setting for this input. The EDID is selected from a drop down menu from more than 20 options.

Driver State

Get State

The Get State function will refresh the current state by requesting the status from the Pro16.

System Variables

Outputs

The Pro16 can have up to 16 outputs, configurable in the System Config. For each Output you have defined a set of variables will be shown in a category that matches the output name. Each Output has the same variables available and they are detailed below.

Enabled

The Enabled variable will be true when the output has been enabled and false when it has been disabled. The System Function Enable and Disable control the state of the output.

Mute

The Mute variable will be true when the output is muted and false when the output is un-muted.

Volume

The Volume variable will contain the current volume percentage (as a number between 0 and 100) or the string Mute if the output is muted.

InputNumber

The InputNumber variable contains the currently selected Input for this output.

System Variables

The system variables hold state for the Pro16 unit as a whole, as opposed to the output variables that are specific to each output.

Power

The Power variable will be true if the Pro16 is powered on or false if it is powered off. The power can be controlled with the System Function PowerON and PowerOFF

Last Preset

The Last Preset variable contains the value of the last preset to have been sent. Note this value will maintain the last preset value even if the state of the unit changes, it will only update when the preset is changed again.

System Events

Connection State Events

Disconnected

The Disconnected event will trigger when the processor loses its TCP connection to the Pro16.

Connected

The Disconnected event will trigger when the processor establishes its TCP connection to the Pro16.