

BG-UHD-1616M

Crestron Driver User Manual







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Statement

Please read these instructions carefully before connecting, operating, or configuring this product. Please save this manual for future reference.

Safety Precaution

- To prevent damaging this product, avoid heavy pressure, strong vibration, or immersion during transportation, storage, and installation.
- The housing of this product is made of organic materials. Do not expose to any liquid, gas, or solids which may corrode the shell.
- Do not expose the product to rain or moisture.
- Unplug this device during lightning storms
- Clean only with a soft dry microfiber cloth.
- To prevent the risk of electric shock, do not open the case. Installation and maintenance should only be carried out by qualified technicians.
- Do not use the product beyond the specified temperature, humidity, or power supply specifications.
- This product does not contain parts that can be maintained or repaired by users. Damage caused by dismantling the product without authorization from BZBGear is not covered under the warranty policy.
- Installation and use of this product must strictly comply with local electrical safety standards.
- Only use accessories specified by the manufacture
- Product specifications may be subject to technical upgrades without further notice
- Do not hot plug when it is working.



Introduction

This driver has been designed to provide control of the BZBGear BG-UHD-1616M 16x16 HDMI Matrix Switcher via RS 232 and TCP/IP.

Installation

- You will need to copy all of the files in the folder to your project directory to allow Simpl Windows to recognize the driver module.
- **To utilize the TCP/IP Client link use the following settings:**
 - **IP:** The IP you set for the product.
 - **Port:** The Port you set for the product, if not set, the factory default Port is 8000
 - **Username:** The factory default is "admin".
 - **Password:** The factory default is "admin".
- **To utilize the RS-232 link use the following settings:**
 - **Baudrate:** 115200
 - **Databits:** 8
 - **Parity:** None
 - **Stop bits:** 1



Inputs

The module has the following commands available as inputs:

Command	Type	Description
GetSystemStatus	Digital	Signal to get the connected devices current status.
Reboot	Digital	Signal used to reset the connected device.
PowerOn	Digital	Signal used to turn on the connected device.
PowerOff	Digital	Signal used to turn off the connected device.
BeepOn	Digital	Signal used to turn on the connected device buzzer.
BeepOff	Digital	Signal used to turn off the connected device buzzer.
PanelLockOn	Digital	Signal used to turn on the connected device panel lock.
PanelLockOff	Digital	Signal used to turn off the connected device panel lock.
Input_Port	Analog	Signal used to set the command parameter the signal range is from 1 to 16. • 1 - Input port 1 • 2 - Input port 2 • ... • 15 - Input port 15 • 16 - Input port 16
Output_Port	Analog	Signal used to set the command parameter the signal range is from 0 to 16. • 0 - All output port • 1 - Input port 1 • 2 - Input port 2 • ... • 15 - Input port 15 • 16 - Input port 16
AV_SwitchOver	Digital	Signal used to switchover the connected device according to the Input_Port and Output_Port
HDMI_Scaler_ByPass	Digital	Signal used to set the connected device HDMI output scaler to "bypass" mode according to the Output_Port.



HDMI_Scaler_4K->1080P	Digital	Signal used to set the connected device HDMI output scaler to downscale “4K->1080P” mode according to the Output_Port.
HDMI_Scaler_Auto	Digital	Signal used to set the connected device HDMI output scaler to “auto” mode according to the Output_Port.
HDMI_Arc_On	Digital	Signal used to turn on the connected device HDMI output to ARC according to the Output_Port.
HDMI_Arc_Off	Digital	Signal used to turn off the connected device HDMI output to ARC according to the Output_Port.
HDMI_Stream_Enable	Digital	Signal used to turn on the connected device HDMI output stream according to the Output_Port.
HDMI_Stream_Disable	Digital	Signal used to turn off the connected device HDMI output stream according to the Output_Port.
From_Matrix	Serial	Signal used to receive character from the connected device.

Outputs

The module has the following commands available to be used as feedback outputs:

Command	Type	Description
Rebooting_busy	Digital	Signal used to indicate that the connected device is currently rebooting.
FB_PowerOn	Digital	Signal used to indicate that the connected device is powered on.
FB_PowerOff	Digital	Signal used to indicate that the connected device is powered off.
FB_BeepOn	Digital	Signal used to indicate that the connected device has its buzzer turned on.
FB_BeepOff	Digital	Signal used to indicate that the connected device has its buzzer turned off.
FB_PanelLockOn	Digital	Signal used to indicate that the connected device has its panel lock turned on.
FB_PanelLockOff	Digital	Signal used to indicate that the connected device has its panel lock turned off.



FB_Input_Port	Analog	Signal used to indicate the currently controlled input port of the device (range of X is 1-16).
FB_Output_Port	Analog	Signal used to indicate the currently controlled output port of the device (range of X is 0-16).
FB_HDMI_Output[X]_Signal_Status	Analog	Signal used to indicate the connected device output ports signal source (range of X is 1-16). • 1 - Signal source is input port 1 • 2 - Signal source is input port 2 • ... • 15 - Signal source is input port 15 • 16 - Signal source is input port 16
FB_HDMI_Output[X]_Scaler_ByPass	Digital	Signal is used to indicate the connected device output HDMI scaler mode is set to ByPass (range of X is 1-16).
FB_HDMI_Output[X]_Scaler_4K->1080P	Digital	Signal is used to indicate the connected device output HDMI scaler mode is set to downscale 4K to 1080P (range of X is 1-16).
FB_HDMI_Output[X]_Scaler_Auto	Digital	Signal is used to indicate the connected device output HDMI scaler mode is set to Auto (range of X is 1-16).
FB_HDMI_Output[X]_Arc_On	Digital	Signal is used to indicate that the connected device output has HDMI Arc turned on (range of X is 1-16).
FB_HDMI_Output[X]_Arc_Off	Digital	Signal is used to indicate that the connected device output has HDMI Arc turned off (range of X is 1-16).
FB_HDMI_Output[X]_Stream_Enable	Digital	Signal is used to indicate that the connected device output HDMI stream is enabled (range of X is 1-16).
FB_HDMI_Output[X]_Stream_Disable	Digital	Signal is used to indicate that the connected device output HDMI stream is disabled (range of X is 1-16).
FB_HDMI_Output[X]_Connection_On	Digital	Signal is used to indicate that the connected device input connection is on (range of X is 1-16).
To_Matrix	Serial	Signal used to send character commands to the connected device.



Tech Support

Have technical questions? We may have answered them already!

Please visit BZBGear's support page (bzbgear.com/support) for helpful information and tips regarding our products. Here you will find our Knowledge Base (bzbgear.com/knowledge-base) with detailed tutorials, quick start guides, and step-by-step troubleshooting instructions. Or explore our YouTube channel, BZB TV (youtube.com/c/BZBTVchannel), for help setting up, configuring, and other helpful how-to videos about our gear.

Need more in-depth support? Connect with one of our technical specialists directly:

Phone

1.888.499.9906

Email

support@bzbgear.com

Live Chat

bzbgear.com



Warranty

BZBGEAR Pro AV products and cameras come with a three-year warranty. An extended two-year warranty is available for our cameras upon registration for a total of five years.

For complete warranty information, please visit bzbgear.com/warranty.

For questions, please call 1.888.499.9906 or email support@bzbgear.com.



Mission Statement

BZBGear is a breakthrough manufacturer of high-quality, innovative audiovisual equipment ranging from AVoIP, professional broadcasting, conferencing, home theater, to live streaming solutions. We pride ourselves on unparalleled customer support and services. Our team offers system design consultation, and highly reviewed technical support for all the products in our catalog. BZBGear delivers quality products designed with users in mind.



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