

**Partner: SnapAV**  
**Model: Wattbox**  
**Device Type: Surge Protector**



## GENERAL INFORMATION

<b>SIMPLWINDOWS NAME:</b>	SnapAV Wattbox v1.8
<b>CATEGORY:</b>	Surge Protectors
<b>VERSION:</b>	1.8
<b>SUMMARY:</b>	This module controls a Wattbox surge protector via TCP/IP.
<b>GENERAL NOTES:</b>	This module was designed to control Wattbox devices. This module supports a maximum of 16 outlets and is compatible with the WiFi or Vertical Power Strip WattBox. Please note that certain features will not be populated depending on the piece of hardware used. For example, WiFi WattBox will not have UPS data or energy data.
<b>CRESTRON HARDWARE REQUIRED:</b>	3 series processor is required.
<b>SETUP OF CRESTRON HARDWARE:</b>	TCP/IP on a per-request basis in SIMPL+. IP address of the Wattbox device.
<b>VENDOR FIRMWARE:</b>	None.
<b>VENDOR SETUP:</b>	None.
<b>CABLE DIAGRAM:</b>	None.

## CONTROL:

<b>CONNECT</b>	D	Set to high to enable this module.
<b>DEBUG</b>	D	Set to high to turn debugging on for toolbox.
<b>POLL NOW</b>	D	Set to high to query the device immediately for the latest outlet state, ups state, and power state.
<b>OUTLET_RESET_ALL</b>	D	Pulse to reset all outlets.
<b>AUTO_REBOOT_ENABLE</b>	D	Pulse to set auto reboot to enabled.
<b>AUTO_REBOOT_DISABLE</b>	D	Pulse to set auto reboot to disabled.
<b>OUTLET_ON[n]</b>	D	Where n = outlet number. Pulse to turn the outlet on.
<b>OUTLET_OFF[n]</b>	D	Where n = outlet number. Pulse to turn the outlet off.
<b>OUTLET_RESET[n]</b>	D	Where n = outlet number. Pulse to reset the outlet.
<b>OUTLET_TOGGLE[n]</b>	D	Where n = outlet number. Pulse to toggle the outlet.
<b>OUTPUT_RESET_DELAY_OVERRIDE</b>	A	Delay in seconds ranging from 1 – 600 used to override the power on delay configured in OvrC. If you'd like to use the OvrC configured power on delay, this must be set to zero.

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**PASSTHROUGH**
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Allows a means to send commands directly to the device. Must adhere to the official WattBox Protocol Document.

**FEEDBACK:**

<b>CONNECTED</b>	D	HIGH = Connected LOW = Disconnected
<b>UPS_BATTERY_HEALTH</b>	D	LOW = Good HIGH = Bad
<b>UPS_POWER_LOST</b>	D	LOW = power on HIGH = power lost
<b>UPS_ALARM_ENABLED</b>	D	LOW = disabled HIGH = enabled
<b>UPS_ALARM_MUTED</b>	D	LOW = Unmuted HIGH = muted
<b>OUTLET_STATES[n]</b>	D	Where n = outlet number. LOW = off HIGH = on
<b>SAFE_VOLTAGE_EVENT</b>	D	LOW = safe HIGH = Unsafe
<b>UPS_BATTERY_CHARGE</b>	A	Percentage battery charge
<b>UPS_BATTERY_RUNTIME</b>	A	Time in minutes left of battery
<b>UPS_BATTERY_LOAD</b>	A	Percentage battery load
<b>CURRENT</b>	A	Overall current usage in amps
<b>POWER</b>	A	Overall power usage in watts
<b>VOLTAGE</b>	A	Overall voltage usage in volts
<b>OUTLET_POWER[o]</b>	A	Power usage in watts for outlet o
<b>OUTLET_CURRENT_RMS[o]</b>	A	Current usage in amps for outlet o
<b>OUTLET_VOLTAGE_RMS[o]</b>	A	Voltage usage in volts for outlet o
<b>FIRMWARE_VERSION</b>	S	Text representing firmware version
<b>HOSTNAME</b>	S	Text representing hostname
<b>SERVICE_TAG</b>	S	Text representing service tag
<b>MODEL_NUMBER</b>	S	Text representing model number
<b>OUTLET_NAMES[n]</b>	S	Where n = outlet number. Text representing name

**PARAMETER:**

<b>device_ip\$</b>	<b>S</b>	IP address of the Wattbox.
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Username\$	S	Username of the Wattbox
Password\$	S	Password of the Wattbox.

**TESTING:**

**OPS USED FOR TESTING:** RMC3 1.010.0060

**SIMPL WINDOWS USED FOR TESTING:** 4.02.65

**DEVICE DB USED FOR TESTING:** 65.05.003.00

**CRES DB USED FOR TESTING:** 51.05.007.00

**SYMBOL LIBRARY USED FOR TESTING:** 944

**SAMPLE PROGRAM:** SnapAV Wattbox Demo

V1.8  
Optimizations and cleanup

V1.7  
Fixed 6 outlet bug preventing ups and energy polling

V1.6  
Added support for reset outlet with delay

V1.5  
Added support for wifi wattbox  
Added support for 2 way feedback

**REVISION HISTORY:** V1.4  
Added service tag and removed serial number

V1.3  
Added poll now signal, connected signal for indicating communication state, outlet reset code refactor.

V1.2  
Fixed outlet names with commas

V1.1  
Added login credentials

V1.0  
Original Release