



Vestaboard v1.0

SIMPL Window Module Application Guide

Description

The SIMPL Windows Module Suite controls a Vestaboard split-flap display and supports the Vestaboard Flagship (25 columns x 6 rows) and Vestaboard Note (15 columns x 3 rows) over the Vestaboard Cloud API.

This module suite allows for sending custom messages to the Vestaboard in a number of ways that are shown in the demo program.

If your project requires something custom, a module can be developed by ControlWorks on request to meet a specific design requirement. Contact us at support@controlworks.com to discuss your requirements.

Internet access is required at all times. This module communicates with the Vestaboard cloud API and the ControlWorks license server. The processor must have outbound internet access for the module to function.

This module requires a license that can be obtained by following the steps later in this document. Each module instance requires a license. Licenses are tied to the Crestron processor and program slot.

Supported Processors

Any 3-series or 4-series processor that supports Ethernet and Direct Sockets.

Compatibility				Processor Requirements	

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Module Instance License

This Module requires a License that can be obtained by following the steps below. Each instance of a module in a program module requires an associated license. For example, if you have 2 modules in a program slot, 2 licenses are required.

Licenses (and the Activation Key) are tied to the:

- Appliance processors:
 - Processor and program slot.
- VC-4-PC-3 processors:
 - Processor and RoomID.

Licenses are purchased using the Activation Key. The Activation Key is unique to each program slot (appliance processor) or VC-4 Room (VC-4 processor), and a different key is generated for different program slots or VC-4 Rooms.

If you have purchased a license(s) for the processor previously, and you would like to add additional licenses, additional licenses can be purchased at any time using the same Activation Key.

License Changes and Transfers

If a processor fails and is replaced the license will need to be updated. If the program slot (appliance processor) or Room ID (VC-4 processor) changes, the license will need to be reassigned. We offer one complimentary reassignment of the license. A processing fee is required for subsequent reassignment of the licenses. Before purchasing a license, we encourage the use of our Trial Period to allow for development and testing before purchasing licenses.

All licenses associated with an Activation Key must be transferred together. Unused licenses, or a quantity of used or unused licenses cannot be transferred.

Trial Period

To aid testing, the Module includes a complimentary 7-day trial period, during which time the Module is fully functional. This Trial Period functionality requires that the system has active Internet connection and are able to reach ControlWorks' activation servers. The Trial period starts when the module is first loaded to the processor. For offline activation, please contact us.

Trial mode is only available with internet connected systems and when no licenses have been purchased for this Module. If a license(s) has been purchased and applied, any additional Modules that are not licensed will not enter trial mode and will not function.

Steps for Purchasing a License

Licenses are tied to the Crestron Processor and program slot. The steps below outline how to purchase a license(s) and how to apply them to the processor. The process is the same for a Crestron processor appliance or VC-4.

1. Add the Engine Module(s) to your program

2. Ensure the [reboot_finished\(latch_high\)](#) signal is being latched high after program is started and initialized. See the demo program for using a DELAY symbol as a way to do this.
3. Ensure the signals [\[activation_status_fb\\$\]](#), [\[activation_key_fb\\$\]](#), [\[activation_url_fb\\$\]](#), [\[refresh_license_from_file\]](#), and [\[refresh_license_from_server\]](#) are defined. You may comment them out to avoid unconnected signal warnings.
4. Compile and load.
5. Open Crestron Debugger and connect to the system.
6. After the [reboot_finished](#) is latched high, the Modules will attempt to retrieve the license. [\[activation_status_fb\\$\]](#) will display the retrieval status. If the license has been retrieved, [\[activation_url_fb\\$\]](#) will contain a URL, that when navigated to, the license page will be displayed, and the activation key will automatically be entered into the web site.
 - a. Alternatively, you may copy the value for [\[activation_key_fb\\$\]](#) and proceed to the license page at <https://store.controlworks.com/products/Unifi-Protect-Alarm-Manager-License>.
7. Place the Activation Key into the Activation Key field on the web page.
8. Enter a Site Reference Name. This is used to help you identify your purchased licenses and may speed support in some cases.
9. Enter the quantity you wish to purchase. Note that unused licenses cannot be transferred to a different processor or program slot/room at a later time.
10. Press Order Online for Instant License Activation and complete the payment process. Once the purchase is complete, the licenses are immediately available for the processor to be retrieved. Follow the steps below for the processor to retrieve the purchased licenses.

Steps to Apply Licenses

Once the license(s) have been purchased, you will need to apply them to the processor. This can be done a few different ways.

Applying licenses from Crestron Debugger:

1. Ensure the signals [\[activation_status_fb\\$\]](#), [\[activation_key_fb\\$\]](#), [\[activation_url_fb\\$\]](#), [\[refresh_license_from_file\]](#), and [\[refresh_license_from_server\]](#) are defined in your program.
2. Open Crestron Debugger and connect to the system.
3. If you have purchased licenses from the web store, pulse the [\[refresh_license_from_server\]](#) digital input.
 - a. Alternatively, you may send a [console command](#) to initiate a license refresh.

Applying licenses from console:

1. Connect to the Crestron Processor using console (for example, using Crestron Toolbox Text Console, or PuTTY).
2. Send the command UCMD:[program slot #] "RETRYAUTH"
i.e UCMD:1 "RETRYAUTH"
3. The Modules will check the activation server for updated licensing information and will apply the license.
4. The console will display updated license information.

5. [license_status_fb\$] will be updated showing the current license information.

Offline Activation

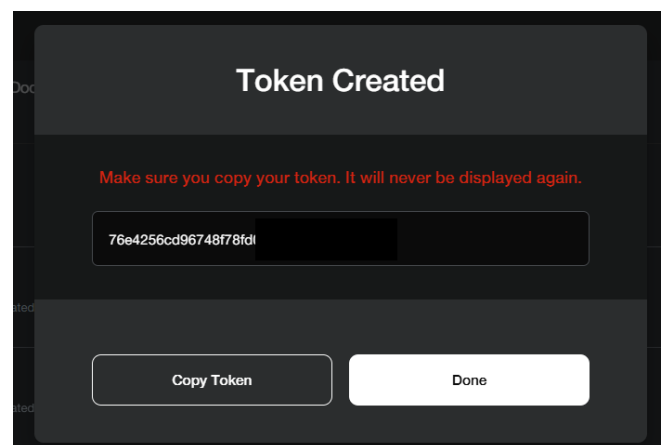
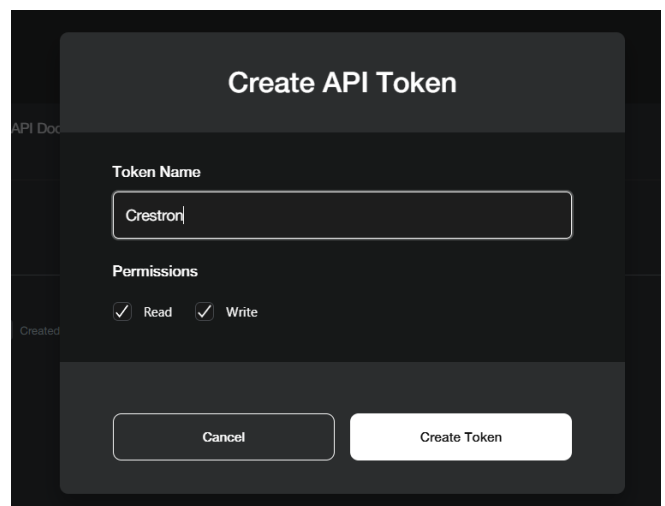
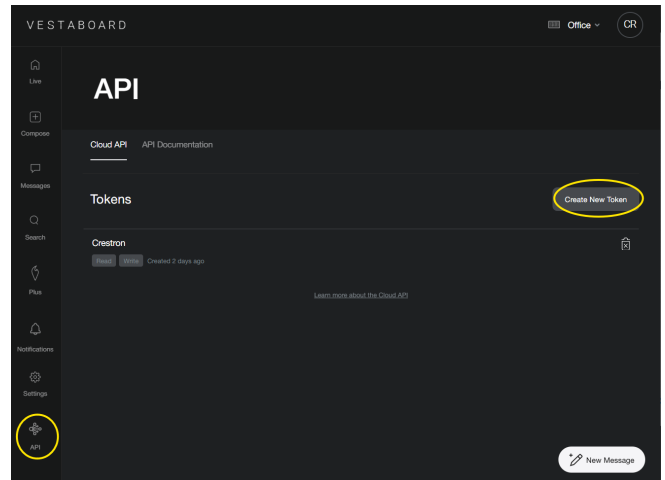
We understand that not all installations have access to the Internet. Because of this, we offer an offline activation method. Please contact us for the specific procedure, and please have the Activation Key available.

Vestaboard Setup – API Key

This Module communicates to the Vestaboard service over the internet to the Vestaboard servers. Accessing this service requires an API Key that can be obtained at <https://web.vestaboard.com/>.

Steps to obtain the API Key:

1. Open a browser and navigate to <https://web.vestaboard.com> and login to your account.
2. On the left navigation drawer, the bottom item is API. Select API.
3. On the API Page, select "Create New Token"
4. The Token dialog will be displayed. Enter a name (we recommend "Crestron") and press Create Token.
5. The token will be displayed.
 - Copy this token and save it in your project documentation.
 - This token will be used in the API Key Parameter in the Engine module.



General Operation

The Vestaboard SIMPL Windows Module Suite consists of three modules for controlling a Vestaboard split-flap display.

- **Vestaboard Engine:** The core module required for all Vestaboard operations. It handles communication with the Vestaboard cloud API, licensing, and exposes control signals for sending messages to the display. The Engine is the only required module in this suite.
- **Vestaboard Calendar:** A custom module that displays a monthly calendar with color-coded days on the Vestaboard Flagship. Calendar data and day colors are configured via signals from the control system.
- **Vestaboard Time and Quote:** A custom module that displays a quote and author alongside the current time on the Vestaboard Flagship.

The Calendar and Time and Quote modules are custom modules built for specific use cases. They are unlocked and commented to demonstrate creating your own custom Module and tying that into the Engine module. You can also contact us at support@controlworks.com to discuss having us build a custom module to display your desired content.

Vestaboard Engine

The Vestaboard Engine is the core module of the suite and must be present in any SIMPL Windows program using a Vestaboard. It manages API communication, licensing, and message sending.

The Engine requires a Vestaboard Read/Write API Key and a unique Engine Instance ID. The Instance ID is used by the Calendar and Time and Quote modules to associate with the correct Engine when multiple boards are present in a program.

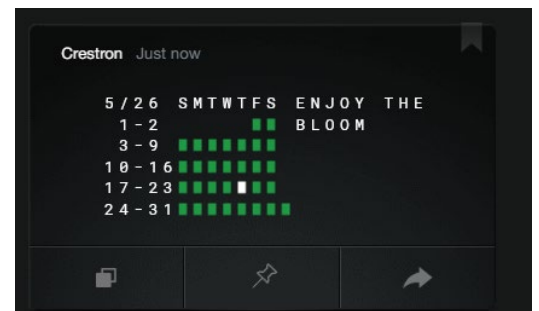
The Engine accepts two types of message input: a plain text string which is automatically formatted and sent to the display, and a VBML JSON payload for advanced layouts and color control. Pre-loaded VBML files stored on the processor can also be sent by filename.

Rate Limiting: The Engine enforces a rate limit on all outbound messages. Sends will be blocked if the message is identical to the last message sent, or if less than 30 seconds has elapsed since the last send. Blocked sends are logged to the Crestron error log.

Licensing is handled automatically by the Engine. The Activation Key and purchase URL are available as feedback signals for use during the licensing process. See the Licensing section for details.

Vestaboard Calendar

The Vestaboard Calendar is a custom module that displays a monthly calendar with color-coded days on the Vestaboard Flagship. It requires the Vestaboard Engine to be present in the program and is associated with the correct Engine via the Parent Engine Instance ID parameter.



The module accepts a time-of-day string that is used to automatically update the Vestaboard each day, or updated manually via a control signal.

Each month has a configurable default day color, and individual days can be overridden with a specific color. A text message can also be associated with each month.

The Calendar module is provided unlocked so integrators can modify it to suit their specific project needs, or you can contact us at support@controlworks.com to discuss specific requirements or customization.

Vestaboard Time and Quote

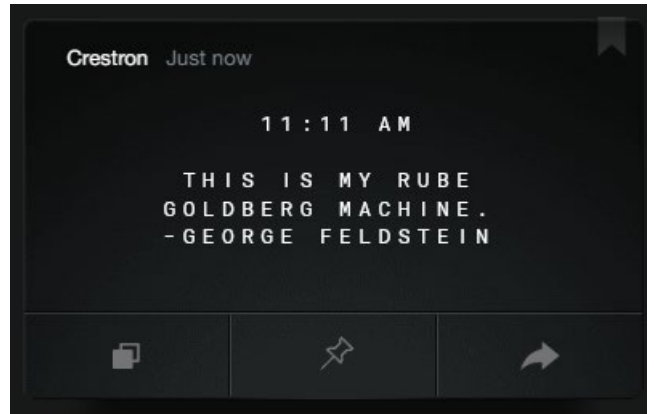
The Vestaboard Time and Quote is a custom module that displays a quote and author alongside the current time on the Vestaboard Flagship. It requires the Vestaboard Engine to be present in the program and is associated with the correct Engine via the Parent Engine Instance ID parameter.

The module accepts a time-of-day string and when the module is set to enable automatically send, the time will stay updated.

The quote and author are provided as input signals from the control system, allowing the integrator to drive the content from any source.

Time display can be configured for 12-hour or 24-hour format, with an option to show or hide the AM/PM indicator.

The Time and Quote module is provided unlocked so integrators can modify it to suit their specific project needs, or you can contact us at support@controlworks.com to discuss specific requirements or customization.



SIMPL# Helper Methods

The underlying SIMPL# library included with this module suite provides three helper methods that can be used when creating your own helper modules, modifying, or extending the Calendar and Time and Quote modules. These methods handle the low-level details of encoding and sending content to the Vestaboard Engine.

- **VestaboardConverters.EncodeVestaboardString(string):** Encodes a text string into Vestaboard character codes. Use this when building custom VBML payloads that include text content.
- **VestaboardInstance.SendVBMLMessage(string):** Sends a VBML JSON payload to the Engine for display on the board. Use this when sending custom layouts. VBML documentation is available at <https://docs.vestaboard.com/docs/vbml/> and custom templates can be created and tested at <https://vbml.netlify.app/>.

- **VestaboardInstance.SendAutoFormattedText(string):** Sends a plain text string to the Engine for automatic formatting and display. Use this for straightforward text output without the need to construct a VBML payload.

The included Calendar and Time and Quote modules are provided unlocked and serve as fully functional reference implementations demonstrating how these helper methods can be used in practice. Integrators are encouraged to review these modules as a starting point when developing custom Vestaboard functionality. You may also contact us at support@controlworks.com to discuss having a specific helper module created or if you have any questions regarding your own customization.

Constructing a VBML Message

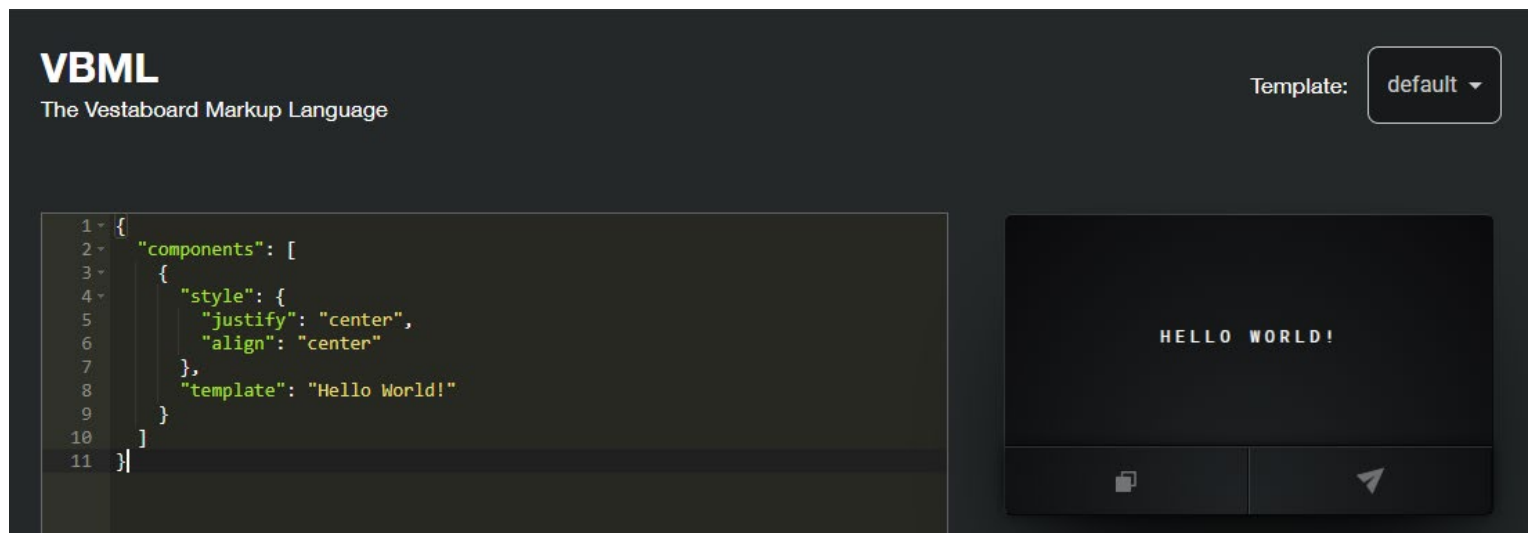
VBML messages are JSON payloads that define the content and layout of the message to be displayed on the Vestaboard. The JSON string can be passed directly to the `[send_vbml_message$]` serial input on the Engine module, or via `VestaboardInstance.SendVBMLMessage(string)` as demonstrated in the Calendar and Time and Quote modules.

The [VBML Playground](https://docs.vestaboard.com/docs/vbml/) is a free interactive tool that lets you build and preview your message before sending it to the board. Full VBML documentation is available at <https://docs.vestaboard.com/docs/vbml/>

A basic VBML message looks like this:

```
{"components":[{"style":{"justify":"center","align":"center"},"template":"Hello World!"}]}
```

Using the [VBML Playground](https://docs.vestaboard.com/docs/vbml/) you can verify the desired message has the correct look and feel.



For a Vestaboard Note, include the root style property to set the board dimensions:

```
{"style":{"height":3,"width":15},"components":[{"style":{"justify":"center","align":"center"},"template":"Hello World!"}]}
```

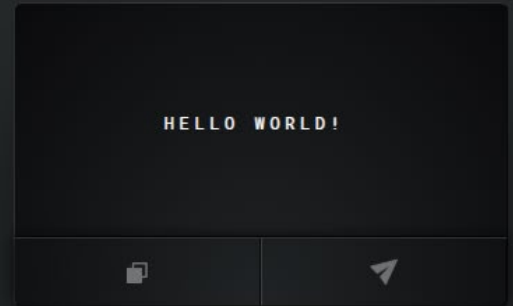
VBML

The Vestaboard Markup Language

Template:

default ▾

```
1 {
2   "style": {
3     "height": 3,
4     "width": 15
5   },
6   "components": [
7     {
8       "style": {
9         "justify": "center",
10        "align": "center"
11      },
12      "template": "Hello World!"
13    }
14  ]
15 }
```



Once you are satisfied with the layout in the VBML Playground, copy the JSON and initialize the [send_vbml_message\$] input from a string output symbol such as SIO, MSEND, etc symbol or drive it from your control system logic.

Signal and Parameter Descriptions (Engine Module)

Bracketed signals such as "[signal_name]" are optional signals

DIGITAL INPUTS

reboot_finished_(latch_high).....	Latch this signal high after your reboot is complete and the program has started. Do not use a constant 1. The module will evaluate its license status when this input goes high and attempt to connect to the ControlWorks license server if no valid license is found.
[enable_debug].....	When high, the Module will print tx and rx codes and responses from the Vestaboard API to the console.
[refresh_license_from_server].....	Pulse to refresh the license from the licensing server. This input is generally only used when applying a license from the server.
[refresh_license_from_file]	Pulse to refresh license from the file system. This signal is generally only used when refreshing a license that has been manually added.

ANALOG INPUTS

This module does not use any analog inputs.

SERIAL INPUTS

[send_auto_formatted_message\$]	Sends a text string to the Vestaboard. When sent as plain text, the board will automatically format and center the message on the display. The string also supports manual layout control using spaces, line breaks (\n), and color codes Valid color codes are: {63} Red, {64} Orange, {65} Yellow, {66} Green, {67} Blue, {68} Violet, {69} White, {70} Black, {71} Filled. All sends are subject to the rate limiter; duplicate messages or sends within 30 seconds of the previous send will be blocked and logged to the Crestron error log.
[send_vbml_message\$].....	Send a VBML JSON payload to the Vestaboard for advanced layouts and color control. All sends are subject to the rate limiter; duplicate messages or sends within 30 seconds of the previous send will be blocked and logged to the Crestron error log.
[send_vbml_from_file_filename\$]	Send a pre-loaded VBML JSON file stored on the processor by providing the full file path. All sends are subject to the rate limiter; duplicate messages or sends within 30 seconds of the previous send will be blocked and logged to the Crestron error log.

DIGITAL OUTPUTS

[licensed_fb].....	High when the module has a valid license, either trial or perpetual.
[trial_license_valid_fb]	High when a valid trial license is active.
[perpetual_license_valid_fb]	High when a valid perpetual license is active.

ANALOG OUTPUTS

This module does not use any analog outputs.

SERIAL OUTPUTS

[license_expires_fb\$]	Indicates the expiration date of the current license.
------------------------------	---

Signal and Parameter Descriptions (Calendar Module)

Bracketed signals such as "[signal_name]" are optional signals

DIGITAL INPUTS

- [enable_auto_send] Pulse to enable automatic daily calendar updates. When enabled, the module will update the Vestaboard each day at midnight.
- [disable_auto_send] Pulse to disable automatic daily calendar updates.
- [manually_update_board] Pulse to immediately send the current calendar to the Vestaboard regardless of the auto send state.

ANALOG INPUTS

This module does not use any analog inputs.

SERIAL INPUTS

- [tod\$] Connect to a CLOCK driver. The module uses this change event to evaluate when to send automatic update.
- [default_day_color_jan-dec] Sets the background color for all days in the specified month. Valid color codes are: 63 Red, 64 Orange, 65 Yellow, 66 Green, 67 Blue, 68 Violet, 69 White, 70 Black, 71 Filled.
- [day_color_jan-dec] Sets the color used to highlight the current day in the specified month. Valid color codes are: 63 Red, 64 Orange, 65 Yellow, 66 Green, 67 Blue, 68 Violet, 69 White, 70 Black, 71 Filled.
- [message_jan-dec] Sets the text message associated with the specified month. This message is displayed on the Vestaboard alongside the calendar.

DIGITAL OUTPUTS

- [enable_auto_send_fb] High when automatic daily calendar updates are enabled.
- [trial_license_valid_fb] High when a valid trial license is active.
- [perpetual_license_valid_fb] High when a valid perpetual license is active.

ANALOG OUTPUTS

This module does not use any analog outputs.

SERIAL OUTPUTS

This module does not use any serial outputs.

PARAMETERS

- Parent Engine Instance ID Enter the Engine Instance ID of the Vestaboard Engine module this Calendar module should communicate with. This must match the Engine Instance ID parameter set in the corresponding Vestaboard Engine module.

Signal and Parameter Descriptions (Time and Quote Module)

Bracketed signals such as "[signal_name]" are optional signals

DIGITAL INPUTS

[enable_auto_send]	Pulse to enable automatic time updates. When enabled, the module will keep the time on the Vestaboard current.
[disable_auto_send]	Pulse to disable automatic time updates
[manually_update_board]	Pulse to immediately send the current time and quote to the Vestaboard regardless of the auto send state.
[12_hour_format]	Latch high to display the time in 12-hour format.
[24_hour_format]	Latch high to display the time in 24-hour format.
[display_am/pm]	Latch high to display the AM/PM indicator when using 12-hour format.

ANALOG INPUTS

This module does not use any analog inputs

SERIAL INPUTS

[tod\$]	Connect to a CLOCK driver. The module uses this change event to evaluate when to send automatic update.
[quote]	The quote text to display on the Vestaboard.
[author]	The author of the quote to display on the Vestaboard.

DIGITAL OUTPUTS

[enable_auto_send_fb]	High when automatic time updates are enabled.
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ANALOG OUTPUTS

This module does not use any analog outputs.

SERIAL OUTPUTS

This module does not use any serial outputs.

PARAMETERS

Parent Engine Instance ID	Enter the Engine Instance ID of the Vestaboard Engine module this Time and Quote module should communicate with. This must match the Engine Instance ID parameter set in the corresponding Vestaboard Engine module.
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Support

This Module is supported by ControlWorks Consulting, LLC. For support, you can contact us during our normal office hours, 9 AM to 5 PM US Eastern Time, Monday through Friday, excluding holidays, using one of the methods listed below.

Telephone:

- (+1) 440-449-1100
- (+1) 508-695-0188
- (+1) 202-381-9070
- (+44) 020 4520 4600

Web: <https://www.controlworks.com/contact-us/>

Email: support@controlworks.com

Online Chat: <https://controlworks.com>

Before calling for support, please ensure that you have the Driver loaded into the Crestron Home system, and have reviewed the error log.

Updates, when available, are automatically distributed via email notification to the address entered when the Driver was purchased. In addition, updates may be obtained using your username and password at <https://store.controlworks.com/account/login.aspx>.

Distribution Package Contents

The distribution package for this module should include:

Distribution Contents	
Vestaboard_Engine_v1.0_(ControlWorks).umc	Crestron User Module.
Vestaboard_Engine_v1.0_(ControlWorks).usp	SIMPL+ file used within the processor module.
Vestaboard_Engine_v1.0_(ControlWorks).ush	SIMPL+ header file.
Vestaboard_Calendar_v1.0_(ControlWorks).umc	Crestron User Module for aux circuits.
Vestaboard_Calendar_v1.0_(ControlWorks).usp	SIMPL+ file used within aux circuits module.
Vestaboard_Calendar_v1.0_(ControlWorks).ush	SIMPL+ file
Vestaboard_TimeAndQuote_v1.0_(ControlWorks).umc	SIMPL+ header file.
Vestaboard_TimeAndQuote_v1.0_(ControlWorks).usp	SIMPL+ file
Vestaboard_TimeAndQuote_v1.0_(ControlWorks).ush	SIMPL+ header file.
Vestaboard_Demo_TS1070_v1.0_(ControlWorks).vtp	Demo touchpanel for TSW-1070
Vestaboard_Demo_v1.0_(ControlWorks).smw	Demo program for PRO4 processor
VestaboardCore.clz	SIMPL# Library

Revision History

V1.0 caleb@controlworks.com 2026.05.21

- Initial Release

Development Environment

This Module and Driver version was developed on the following hardware and software. Different versions of hardware or software may or may not operate properly. If you have questions, please contact us.

Manufacturer Hardware	Software Version
Vestaboard Flagship	4.1.0
Crestron Hardware	Firmware Version
Crestron CP4 Processor	v2.8006.00284
Software	Software Version
SIMPL Windows	4.30
Vision Tools Pro-e	6.2.02
Smart Graphics Controls	2.18.00.40
Crestron Database	225.00
Device Database	200.350

ControlWorks Consulting, LLC Module Instance License Agreement

Definitions:

ControlWorks, *We*, and *Us* refer to ControlWorks Consulting, LLC, with headquarters located at 8228 Mayfield Road, Suite 6B Rear Chesterland, Ohio 44026. *You* and *Dealer* refer to the entity purchasing the module. *Client* and *End User* refer to the person or entity for whom the Crestron hardware is being installed and/or will utilize the installed system. *System* refers to all components described herein as well as other components, services, or utilities required to achieve the functionality described herein. Instance License refers to a module license that is granted to a specific combination of a Crestron Processor and a single Controlled Device (for example, based on the respective serial numbers or other uniquely identifying information); a separate Instance License must be purchased for each such combination. *Module* refers to files required to implement the functionality provided by the Module and may include source files with extensions such as UMC, USP, SMW and VTP. *Driver* refers to the files required to implement the functionality in the Crestron Home environment. *Demo Program* refers to a group of files used to demonstrate the capabilities of the Module, for example a SIMPL Windows program and VisionTools Touchpanel file(s) illustrating the use of the Module but not including the Module. *Software* refers to the Module and the Demo Program.

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Provision of Support

We provide limited levels of technical support only for the most recent version of the Module and Driver as determined by Us. We do not provide support for previous version of the Module or Driver, modifications to the Module or Driver not made by Us, to persons who have not purchased the Module, Driver, or corresponding license(s) from Us. In addition, we may decline to provide support if the Demo Program has not been utilized. We may withdraw a Module, Driver, or corresponding license(s) from sale and discontinue providing support at any time and for any reason, including, for example, if the equipment for which the Module or Driver is written is discontinued or substantially modified. The remainder of your rights and obligations pursuant to this license will not be affected should ControlWorks discontinue support for a Module or Driver.

Modification of Software

You may not decrypt (if encrypted), reverse engineer, modify, translate, disassemble, or de-compile the Module or Driver in whole or part. Any modifications to the Module or Driver shall immediately terminate any licenses purchased with respect thereto. You may, however, modify the Demo Program. In no event will ControlWorks Consulting, LLC be liable for direct, indirect, incidental or consequential damages resulting from You modifying the Software in any manner.

Indemnification/Hold Harmless

ControlWorks, in its sole and absolute discretion may refuse to provide support for the application of the Module or Driver in such a manner that We feel has the potential for property damage, or physical injury to any person. Dealer shall indemnify and hold harmless ControlWorks Consulting LLC, its employees, agents, and owners from any and all liability, including direct, indirect, and consequential damages, including but not limited to personal injury, property damage, or lost profits which may result from the operation of a program containing a ControlWorks Consulting, LLC Module or any component thereof.

License Grant

This Module or Driver is licensed under the Instance License system, and Licenses are valid only for the specific combination of Crestron Processor and Controlled Device identified when the License was purchased or otherwise acquired and licenses may not be transferred to other Crestron processors or controlled devices. In ControlWorks sole discretion, ControlWorks may grant a transfer of an existing license to a new Crestron Processor or Controlled Device, not both. If granted, transfer may be subject to an administrative fee as determined by ControlWorks from time to time.

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