Texecom Connect For SIMPL

Revision: 2.0
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Module Description

Ultamation's Texecom Connect Module allows a Crestron system to control a Texecom Connect panel. The modules provide the ability to:

- Arm and disarm areas
- Omit and un-omit zones
- Send panel keypad presses
- See the status of zones and areas
- Receive the panel LCD display text

This document is intended for Authorised Crestron Programmers and assumes you are familiar with Crestron control systems, networking and programming.

To add the modules to a SIMPL Windows program:

- Download the module and example program from the Ultamation shop.
- Add a Texecom Connect Manager module and set its parameters.
- Add a Texecom Connect Area module for each area in the system and set its Area parameter.
- Add a Texecom Connect Zone module for each zone in the system and set its ZoneNum parameter.

Each module is supplied in a standard variant and an Elite 640 variant (e.g. Texecom Connect Manager 640). Use the Elite 640 variants for a Premier Elite 640 panel and the standard variants for all other panels. The signals and parameters are identical in both variants. Area and Zone modules only work with a Manager module of the same variant, but both variants can be used in the same program. The Elite 640 variant is a separate product and requires its own licence.

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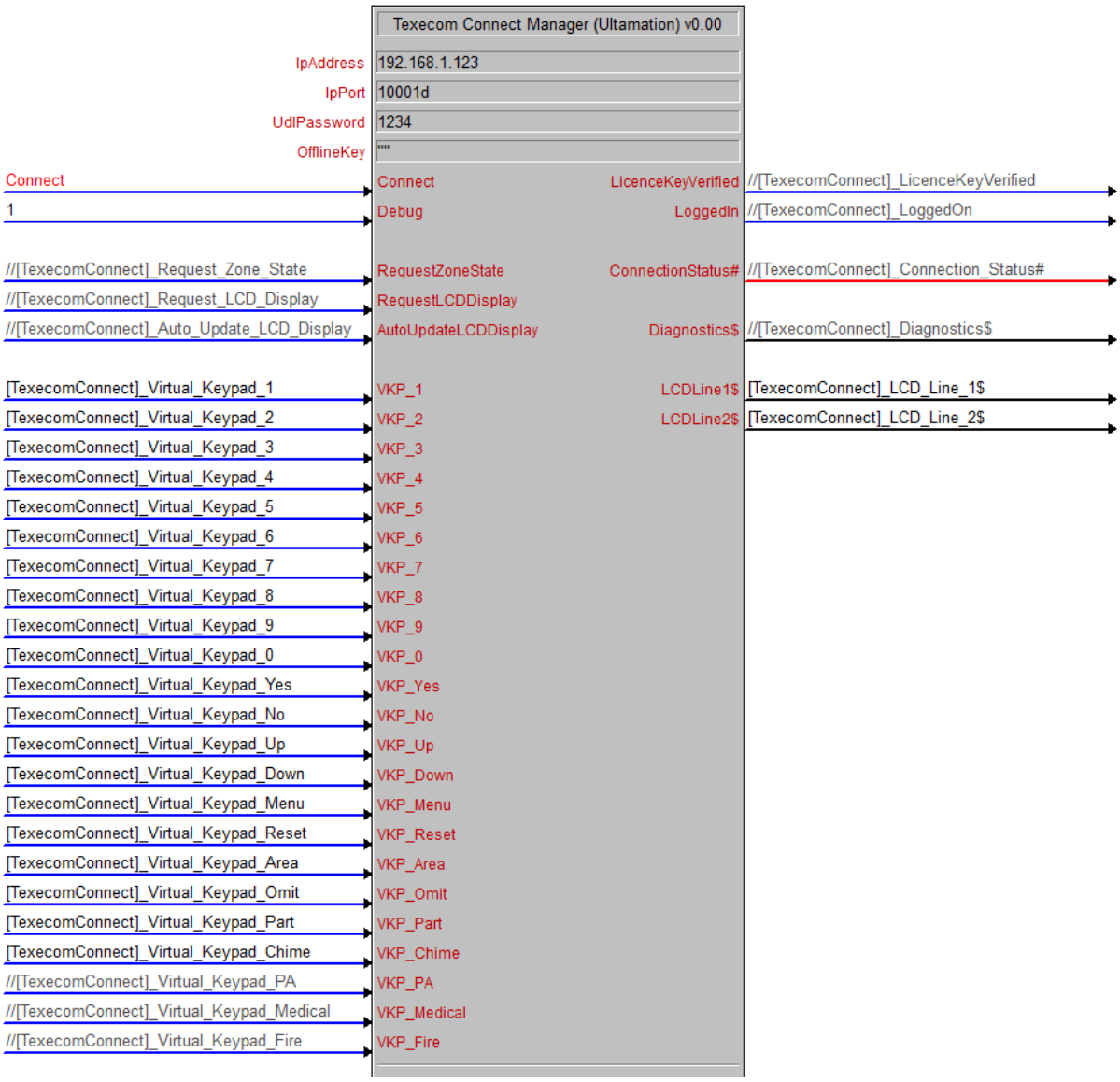
Module Details

Texecom Connect Manager



Parameters

IpAddress – The IP Address or hostname of the Texecom Connect

IpPort – The port number of the Texecom Connect

UdlPassword – The Texecom Connect UDL password

OfflineKey – The optional offline key, if required as explained further down in the "**Licensing**" section.

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Inputs

Connect – When set high, it begins a login attempt to connect. When set low it will either disconnect or stop attempting to connect. Five login attempts are made before the connection is reset to try again. You must be connected to send and receive messages with the system. The ***Diagnostics$*** signal gives feedback on this status such as 'Logging on…', or 'Logon retries exceeded - resetting connection'.

Debug – When high, the module will print debug information to the Crestron console which can be used for debugging.

RequestZoneState – Pulse to request the current state of all zones from the panel. The zone state is also requested automatically once the module has logged in.

RequestLCDDisplay – Pulse to request the text currently shown on the panel's LCD display. The text is output on ***LCDLine1$*** and ***LCDLine2$***.

AutoUpdateLCDDisplay – While high, the LCD display text is requested automatically every 1.5 seconds and kept up to date on ***LCDLine1$*** and ***LCDLine2$***.

VKP_0 to VKP_9 – Pulse to send a virtual key press of the corresponding number key on the panel keypad. E.g. pulsing ***VKP_5*** replicates pressing button 5.

VKP_Yes, VKP_No, VKP_Up, VKP_Down, VKP_Menu, VKP_Reset, VKP_Area, VKP_Omit, VKP_Part, VKP_Chime – Pulse to send a virtual key press of the corresponding function key on the panel keypad.

VKP_PA, VKP_Medical, VKP_Fire – Pulse to send a virtual key press of the personal attack, medical or fire key. Use these with care, as depending on the panel configuration they may raise an alarm.

Outputs

LicenceKeyVerified – Goes high once the module has been initialised at program start. The licence status itself is reported in the processor error log; see the 'Licensing' section.

LoggedIn – Goes high when the login attempt was successful, and low when disconnected.

ConnectionStatus# – The status of the TCP connection to the Texecom Connect. Refer to the SIMPL Windows TCP/IP Client help for the status codes.

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Diagnostics$ – Shows the connection state, zone and area changes, and a message whenever a command (e.g. arm, disarm, omit or key press) fails to be processed by the panel.

LCDLine1$, LCDLine2$ – The upper and lower lines of text on the panel's LCD display, updated when ***RequestLCDDisplay*** is pulsed or while ***AutoUpdateLCDDisplay*** is high.

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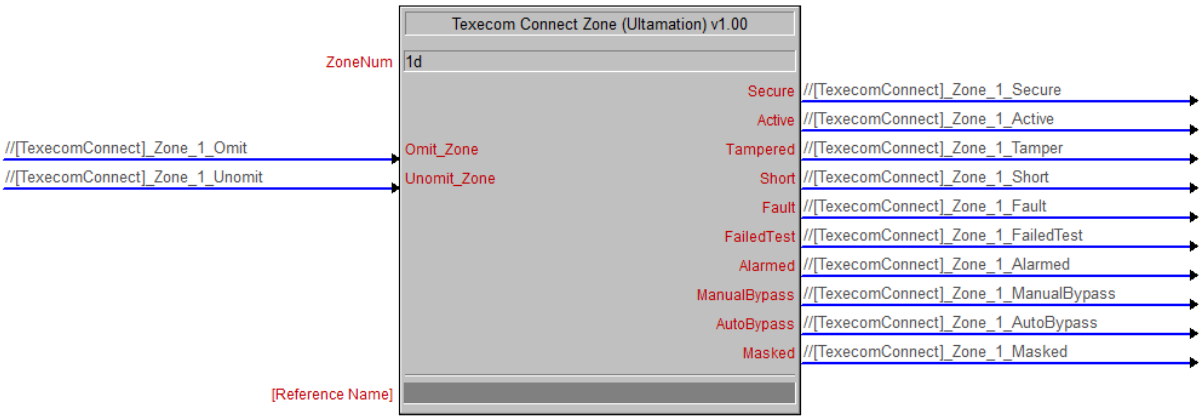
Texecom Connect Zone



Parameters

ZoneNum – The number of the zone on the panel which this module represents. Defaults to 1.

Inputs

Omit_Zone – Pulse to omit this zone. This can be used at any time: before arming, to exclude the zone when the area is next armed, or when armed, to exclude it immediately. If the command fails, a message is added to the error log and displayed on the Manager's ***Diagnostics$*** signal.

Unomit_Zone – Pulse to un-omit this zone. This can be used at any time: before arming, or when armed, to include this zone. If the command fails, a message is added to the error log and displayed on the Manager's ***Diagnostics$*** signal.

Outputs

Secure – High when the zone is not detecting movement. When movement in the zone is detected, this goes low.

Active – High when movement is detected in the zone, and low when there is none (the opposite of ***Secure***).

Tampered – High when this zone has been tampered with.

Short – High when the panel reports a short circuit on this zone.

Fault – High when the panel reports a fault on this zone.

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FailedTest – High when this zone has failed a test.

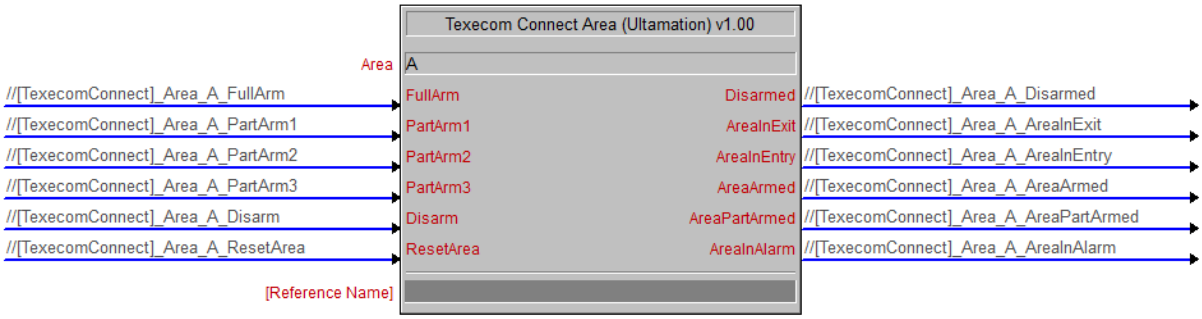
Alarmed – Goes high if the area was armed and this zone became active and set off the alarm. This stays high until a user logs in and resets the panel.

ManualBypass – High when the zone has been omitted manually.

AutoBypass – High when the zone has been omitted automatically by the panel.

Masked – High when the detector on this zone reports that it has been masked.

Texecom Connect Area



Parameters

Area – The area on the panel which this module represents, selected from A to P.

Inputs

If a command fails, a message is added to the error log and displayed on the Manager's ***Diagnostics$*** signal.

FullArm – Pulse to fully arm the area. This can be used at any time; there is no need to log in at the panel first.

PartArm1 – Pulse to arm the area with part arm 1.

PartArm2 – Pulse to arm the area with part arm 2.

PartArm3 – Pulse to arm the area with part arm 3.

Disarm – Pulse to disarm the area. This can be used at any time; there is no need to log in at the panel first.

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ResetArea – Pulse to reset the area after the alarm has been activated. Resetting an area means it will no longer be in an alarmed state, but the panel may continue to beep until a user logs in.

Outputs

These provide the state of the area. An area can be in more than one state at once.

Disarmed – High when the area is disarmed, and low when it is armed.

AreaInExit – High while the area is in its exit time after being armed, to allow people to leave before it enters the armed state. Once armed, this returns low.

AreaInEntry – High when the area is armed and someone has entered via an entry zone. The area remains in this state for a short time to allow it to be disarmed before the alarm sounds. This returns low once the area is either disarmed or enters the alarmed state.

AreaArmed – High when the area has been armed.

AreaPartArmed – High when the area has been armed with a part arm command.

AreaInAlarm – High when the area was armed and then detected movement, causing the alarm to sound. This stays high until the area is reset.

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Support

If you have any issues with an integration solution please let us know by contacting Ultamation support on support@ultamation.com and please include as much detail about your issue as possible, such as a recent processor error log.

Licence verification messages are posted to the error log, so please ensure you have checked this.

Licensing

This integration solution (including software, images and all other associated assets distributed as part of the purchased download package) is licensed on a PER PROCESSOR basis.

A purchase should not be completed without correct information as refunds cannot be issued for errors or changes made to details following purchase.

This is an electronic product and there is no physical delivery.

The integration solution is provided without any warranty with respect to the reliability of the controlled device or changes to device protocol. We will endeavour, through best efforts, to maintain the integration solution's functionality and any bug fixes will be provided free-of-charge. Additional functionality may be released as a variation of this integration solution and this will be a separate, purchasable, product.

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Cloud Licence

This integration solution contacts Ultamation's licensing server at startup. If the server finds a matching licence for the integration solution and processor then the integration solution will be licensed. Otherwise, the integration solution will check the offline licence key. If you purchase a licence **after** you have loaded the integration solution, please reboot the system to see changes take effect.

If you purchased a licence **before** it was migrated to the cloud service, i.e. you have a licence key already, you must enter this into the **Offline Key** user attribute. If you purchased the integration solution **after** it was migrated, and you don't have a licence key, no further action is required.

If no licence exists for the product/processor the integration solution will enter a short trial period (ONE HOUR) to allow for verification of correct control or evaluation.

To request an OFFLINE key, please contact support@ultamation.com with your order details and a brief explanation why you REQUIRE offline activation. Ultamation reserve the right to refuse offline activation.

NOTE: Once an offline key has been issued no further licence changes will be granted. Moving the integration solution to a new processor will require an additional licence purchase.

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