

Partner: Crestron
Model: SSH Interface
Device Type: Miscellaneous



GENERAL INFORMATION

SIMPLWINDOWS NAME:	SSH Interface v1.3
CATEGORY:	Miscellaneous
VERSION:	v1.3
SUMMARY:	This module is an SSH client that will connect to an SSH server via keyboard authentication.
GENERAL NOTES:	This module is an SSH client that will connect to an SSH server via keyboard authentication. A username and password will need to be entered into the module to enable a valid connection.
CRESTRON HARDWARE REQUIRED:	3-Series Processor w/Ethernet port
SETUP OF CRESTRON HARDWARE:	N/A
VENDOR FIRMWARE:	N/A
VENDOR SETUP:	N/A
CABLE DIAGRAM:	N/A

CONTROL:

Connect	D	Latch high to connect to the SSH server.
Accept_New_Key	D	Pulse to accept new key fingerprint.
Decline_New_Key	D	Pulse to decline new key fingerprint.
To_Device	S	Serial strings that are sent to the SSH server.

FEEDBACK:

Is_Connected	D	Indicates that the module is connected to the device.
Connection_Status	A	Indicates the connection status: 1 – Trying to connect 2 – Connected 3 – Not connected

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Connection_Status_Text	S	Displays the current connection status.
Accept_New_Key_Notice	D	If a connection is attempted and the server's key fingerprint is different than what is currently stored, an option to accept the new key is given.
New_Key_Text	S	Displays the new key fingerprint received from the server if it doesn't match the one currently stored.
From_Device	S	Serial strings that are received from the SSH server.

PARAMETERS:

IP Address	S	The IP address of the device being connected to.
Username	S	The username used to login to the device server.
Password	S	The password used to login to the device server.
Accept All Keys	A	When set to "Yes", the module will always accept the server's key fingerprint and proceed with connecting to the device. When set to "No", the module will accept and store the server's key fingerprint upon the initial connection. From that point on, if a connection is attempted and the server's key fingerprint is different than what is currently stored, an option to accept the new key is given. If the host producing the new key is trusted, pulse the "Accept_New_Key" to store this new key fingerprint and proceed with connecting. If not, pulse "Decline_New_Key" and cancel the connection attempt.
Unique ID	D	A unique ID MUST be assigned to every instance of this module used in a program to ensure that the key fingerprint is stored in its own file.
Debug	D	Use to log debug messages and print them to text console.

TESTING:

OPS USED FOR TESTING:	3-Series: v1.501.0025
SIMPL WINDOWS USED FOR TESTING:	v4.06.01
DEVICE DB USED FOR TESTING:	v81.05.003.00
CRES DB USED FOR TESTING:	v61.05.007.00
SYMBOL LIBRARY USED FOR TESTING:	v1023
SAMPLE PROGRAM/S:	SSH Interface v1.3 Demo PRO3.smw

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**REVISION HISTORY:**

v1.0 – Original release.

v1.1 – Resolved connection status reporting when physically disconnected. Resolved intermittent incoming data loss.

v1.2 – Resolved issue with disconnect status not reporting properly.

- Modified reconnect logic.
- Added debug parameter.
- Fixed issue where module would accept a new key if no previous key was accepted and Accept All Keys was disabled.

v1.3 – Resolved issue with occasional null reference exception when resetting program.