

Partner: Crestron
Model: KNX
Device Type: System control

**GENERAL INFORMATION:**

SIMPLWINDOWS NAME:	"Crestron KNX IO v3.0.1 .umc"
CATEGORY:	System control
VERSION:	V3.0.1
SUMMARY:	This macro takes care of the communication between the CGEIB-IP/CI-KNX and the Crestron processor.
GENERAL NOTES:	<p>PLEASE CAREFULLY READ THE CGEIB-IP/CI-KNX MANUAL BEFORE PROGRAMMING.</p> <p>This macro takes care of the communication between the CGEIB-IP with firmware 7.03/CI-KNX and the Crestron processor.</p> <p>The macro is assigned a gateway ID to link it to a KNX Data type module. The KNX IO module defines the Gateway type (CGEIB-IP or CI-KNX) that will be used to communicate with the KNX system.</p> <p>CI-KNX:</p> <p>The CI-KNX uses Object IDs that can be found in ETS in the parameter section for CI-KNX. I.e. if CI-KNX Object ID 1 added to the same group address as the 1 bit object that switches a light then the ID parameter on this module should contain "1".</p> <p>The CI-KNX supports up to 250 data type modules connected to one KNX IO module.</p> <p>CGEIB-IP:</p> <p>The CGEIB-IP uses group address as it is stated in the KNX software. I.e. if your group address is "12/3/255", you copy this exact sequence in the module's "Group Address" parameter. The parameter also allows 2-level group addresses.</p> <p>The CGEIB-IP supports up to 500 data type modules connected to one KNX IO module.</p>
CRESTRON HARDWARE REQUIRED:	3-Series processor
SETUP OF CRESTRON HARDWARE:	<p>The demo program was written for a CP3.</p> <p>The CGEIB-IP is controlled via TCP/IP. Port: 10001.</p> <p>The CI-KNX is controlled via TCP/IP. Port: 12004.</p>
VENDOR FIRMWARE:	CGEIB-IP: V7.03 CI-KNX: N/A
VENDOR SETUP:	CGEIB-(IP)/CI-KNX connected to the KNX bus
CABLE DIAGRAM:	Standard ethernet cable.

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CONTROL:

Initialize	D	Pulse to Initialize the module.
Poll_All	D	Pulse to poll all registered data type objects.
Enable_Debug_Mode	D	Set high debug mode. When debug mode is enabled extra information regarding the communication process will outputted on the text console. The signal should only be set high when debugging the system. Keeping debug mode on during the normal operation of the system is not recommended as it will slow down the system.
Send_Delay	A	[CI-KNX only] Sets the delay for sending out commands to the CI-KNX. By default the delay is set to 0. Valid values: 0-300 in hundredth of seconds. This value can only be set after the Initialization_is_Complete output latches high.
Send_Retries	A	[CI-KNX only] Sets the number of send retries when a command fails. By default it set to 0. Valid values: 0-10. This value can only be set after the Initialization_is_Complete output latches high.
Send_Email_On_Send_Failure	D	[CI-KNX only] Set high to enable to send out email on a send failure for a command. The email configuration can be setup with the inputs below. This value can only be set after the Initialization_is_Complete output latches high.
From_Email_Address	S	[CI-KNX only] Sets the email address for the From field on the send failure email. This value can only be set after the Initialization_is_Complete output latches high.
To_Email_Address	S	[CI-KNX only] Sets the email address for the To field on the send failure email. This value can only be set after the Initialization_is_Complete output latches high.
Mail_Server_Address	S	[CI-KNX only] Sets the address of the mail server. This value can only be set after the Initialization_is_Complete output latches high.
Mail_Server_User_Logon_Name	S	[CI-KNX only] Sets the user logon name for the mail server. This value can only be set after the Initialization_is_Complete output latches high.
Mail_Server_User_Logon_Password	S	[CI-KNX only] Sets the user logon password for the mail server. This value can only be set after the Initialization_is_Complete output latches high.

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FEEDBACK:

Initialization_is_Complete	D	High to indicate that the module is ready to be used.
ConnectionStatus	A	Indicates the status of the connection with the gateway.

PARAMETERS:

Gateway ID	Num	This ID should match with one of the Gateway IDs defined on the Crestron KNX IO modules in the program.
Gateway Type	Num	The gateway that will be used to communicate with the KNX bus.
IP Address	S	The IP address of the gateway.
Port	S	The control port for the gateway.

TESTING:

OPS USED FOR TESTING:	CP3: v1.501.2867.24563
SIMPL WINDOWS USED FOR TESTING:	V.4.06.01
CRESTRON DB USED FOR TESTING:	V. 61.05.007.00
DEVICE DB USED FOR TESTING:	V. 81.06.003.00
SAMPLE PROGRAM:	"Crestron KNX v3.0 CP3 Demo"
REVISION HISTORY:	<div>V. 3.0</div> <div>V. 3.0.1:</div> <ul style="list-style-type: none">• Added send delay and retry inputs.• Added option to send email on send failure.