Crestron **CGEIB-IP** KNX Control Interface

Operations & Installation Guide





This document was prepared and written by the Technical Documentation department at:



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Industry Compliance

As of the date of manufacture, the Crestron CGEIB-IP has been tested and found to comply with specifications for CE marking and standards per EMC and Radiocommunications Compliance Labelling.

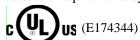




Industry Compliance

This Crestron CGEIB-IP has been manufactured to comply with UL's Standards for Safety in Canada and the United States.

This product is Listed to applicable UL Standards and requirements by Underwriters Laboratories Inc.



Crestron CGEIB-IP KNX Control Interface Operations & Installation Guide

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Crestron International
Oude Keerbergsebaan 2
B-2820 Rijmenam - Belgium
Tel.: +32,15,50,99,50

Important Safety Instructions

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use this apparatus near water.
- Clean only with dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or groundingtype plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is
 required when the apparatus has been damaged in any way,
 such as power-supply cord or plug is damaged, liquid has been
 spilled or objects have fallen into the apparatus, the apparatus
 has been exposed to rain or moisture, does not operate
 normally, or has been dropped.
- Disconnect power prior to connecting or disconnecting equipment.
- Do not install in direct sunlight.
- The apparatus must be installed in a way that the power cord can be removed either from the wall outlet or from the device itself in order to disconnect the mains power.
- Prevent foreign objects from entering the device.

WARNING:

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. THE APPARATUS SHALL NOT BE EXPOSED TO DRIPPING OR SPLASHING. OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THE APPARATUS.

WARNING:

TO PREVENT ELECTRIC SHOCK, DO NOT REMOVE COVER. THERE ARE NO USER SERVICEABLE PARTS INSIDE. ONLY QUALIFIED SERVICE PERSONNEL SHOULD PERFORM SERVICE.





The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

THIS IS AN APPARATUS WITH CLASS I CONSTRUCTION. IT SHALL BE CONNECTED TO AN ELECTRICAL OUTLET WITH AN EARTHING GROUND TERMINAL.

IMPORTANT:

The Crestron CGEIB-IP can be used with Class 2 output wiring.

Contents

KNX (Control Interface: Crestron CGEIB-IP	1
	Introduction	1
	Features and Functions	
	Specifications	
	Physical Description	
	Setup	
	Network Wiring	
	CGEIB-IP Setup	
	Installation	
	Programming Software	13
	Earliest Version Software Requirements for the PC	13
	Programming with SIMPL Windows	
	Example Program	13
	Uploading and Upgrading	14
	Programs and Firmware	14
	Operation	
	Main Module: Crestron KNX IO v3.0	17
	Group Modules	17
	The different types of Data Type modules	
	Data type 1 bit	18
	Data type 4 bit	18
	Data type 1 Byte	18
	Data type 2 Byte	19
	Data type 4 Byte	
	Data-type 14 Byte	
	Polling	
	Problem Solving	22
	No Ethernet communication on CGEIB-IP	
	Reference Documents	
	Further Inquiries	
	Future Updates	
	Software License Agreement	
	Return and Warranty Policies	
	Merchandise Returns / Repair Service	
	CRESTRON Limited Warranty	31

KNX Control Interface: Crestron CGEIB-IP

Introduction

The Crestron CGEIB-IP is a control interface by which a Crestron control system can be coupled to a KNX installation using either RS232 or Ethernet (TCP/IP). Also, the Crestron CGEIB-IP filters the desired information out of received KNX messages and sends them to the Crestron control system via the same interface (RS232 or TCP/IP), which provides the Crestron installation with live updates of the KNX installation.

Features and Functions

- DIN-rail mountable
- Control up to 500 group addresses on a KNX/EIB network
- Equipped with an RS232 port and a TCP/IP port
- Capable of receiving live updates. No polling necessary

Specifications

Specifications for the Crestron CGEIB-IP are listed in the following table.

Crestron CGEIB-IP Specifications

SPECIFICATION	DETAILS			
Power				
Power Usage	24 V AC/DC			
Minimum 3-Series Control System Update File ^{1,2}	Version 3 or later			
Environmental				
Temperature	32° to 131° F (0° to 55° C)			
Humidity	0% to 93% RH (non-condensing)			

Enclosure	
Chassis	Hard plastic
Mounting	2M wide DIN rail mounting(35mm)
Dimensions	
Height	3.54 in (9 cm)
Width	1.38 in (3.5 cm)
Depth	2.76 in (7 cm)
Weight	0.231 lbs (0.105 kg)

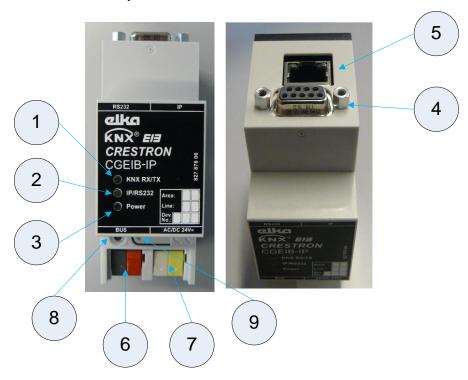
- The latest software versions can be obtained from the Crestron website. Refer to the NOTE following
 these footnotes
- Crestron 2-Series control systems include the AV2 and PRO2. Consult the latest Crestron Product Catalog for a complete list of 2-Series control systems.

NOTE: Crestron software and any files on the website are for authorized Crestron dealers and Crestron Authorized Independent Programmers (CAIP) only. New users may be required to register to obtain access to certain areas of the site (including the FTP site).

Physical Description

This section provides information on the connections, controls and indicators available on your Crestron CGEIB-IP.

Crestron CGEIB-IP Physical View



Connectors, Controls & Indicators

#	CONNECTORS, CONTROLS & INDICATORS	DESCRIPTION		
1	KNX/RX/TX LED	Color: red/green Red upon KNX data received, green upon KNX data transmitted.		
2	IP/RS232 LED	Color: red Red with RS232 connected (DTR=High), green with IP connected.		
3	Power LED	Color: blue Blue if operating voltage is applied.		
4	RS232 Connector	DB9 female, bidirectional RS232 port		
5	RJ-45 Connector	RJ-45 Socket		
6	KNX BUS Connector	Wago connector that connects the CGEIB-IP with the KNX bus.		
7	Power Connector	Wago connector used to power the CGEIB-IP. The CGEIB-IP should be powered with 24V AC/DC		
8	KNX Programming-LED	Color: red Red when CGEIB-IP is in ETS programming mode.		
9	Programming button	Press to set the unit in ETS programming mode.		

Setup

Network Wiring

Serial Connection:

The KNX v3.0 modules only support TCP/IP communication. The RS232 interface is described here for legacy purposes.

The CGEIB-IP can be serially controlled over RS-232 via the SUBD 9 on top of the unit. The following pins are required:

Com pin outs between Crestron COM port and CGEIB-IP RS232 SUBD 9pol.

CGEIB-IP	Crestron DB9	Crestron Phoenix
Tie pins 1 and 4		
Pin 2	Pin 2	RX
Pin 3	Pin 3	TX
Tie Pin 4 and 1		
Pin 5	Pin 5	GND
Pin 7	Pin 7	RTS
Pin 8	Pin 8	CTS

LAN Connection:

The CGEIB-IP can be controlled over TCP/IP by means of the LAN port. This LAN port is automatically activated when no RS-232 cable is connected.

The LAN port starts a DHCP inquiry only after PowerOn or Reset, i.e. if a network cable is plugged after PowerOn of the CGEIB-IP, the LAN port does not fetch an IP address over DHCP. Thus the LAN port is not accessible in the network.

Best practice: Before powering up the CGEIB-IP, all other connections should be made!

The CGEIB-IP does not support POE.

Commissioning of the LAN port

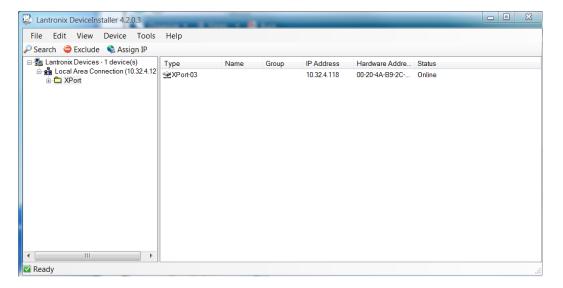
The LAN port must be connected to the network. Afterwards, the CGEIB-IP can be powered on. In case of a direct connection of the LAN port with the PC, a cross-link connection is needed.

On delivery, the LAN port is already configured.

By default, it is set to automatic inquiry of the IP address. To scan the network for the CGEIB-IP, please use the Lantronix® DeviceinstallerTM.

(http://www.lantronix.com/device-networking/utilities-tools/device-installer.html)

- Open the DeviceinstallerTM software.
- Click on the "Search" icon or select "Search" under the menu item "Device" to look for devices.

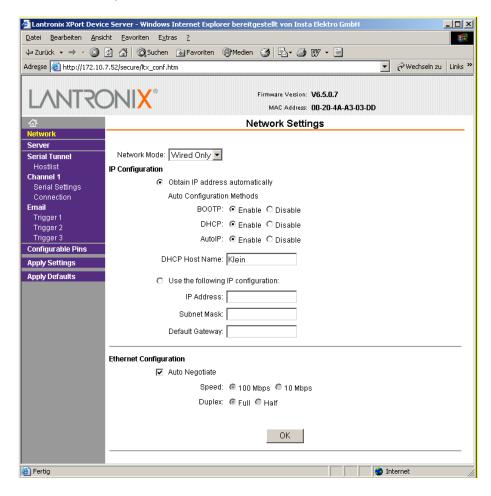


Deviceinstaller™ will show you all CGEIB-IP's in your network and report their IP address and TCP port to communicate on.

The CGEIB-IP only configures its Ethernet port upon start up. SO, after every change in the IP configuration (DHCP or static), make sure to reboot the CGEIB-IP with the network cable plugged in.

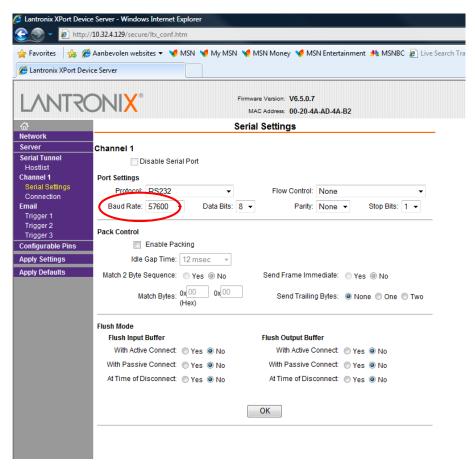
NOTE: As described above, the Ethernet configuration only takes place when no RS-232 cable I connected. Therefore, when using Ethernet to control the CGEIB-IP, upon reboot of the unit make sure the Ethernet cable is plugged in and no RS-232 cable is present.

- Changing the IP-address configuration
- Open browser (e.g. Windows Internet Explorer)
- Browse to the IP-address of the LAN port
- Select menu item "Network" to setup basic IP configuration (static or DHCP)

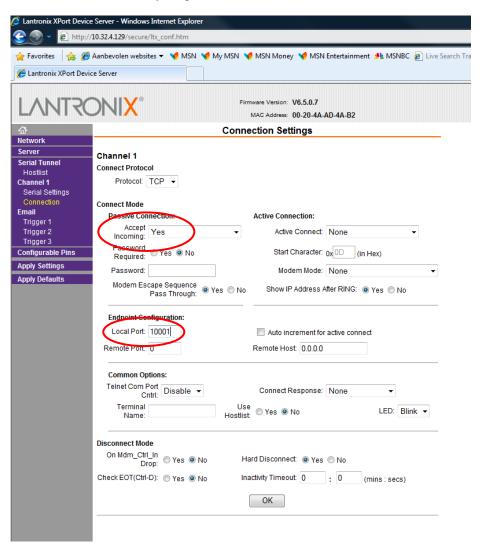


- Select menu item "Serial Settings" and make sure the baudrate is set to 57600.

This is not the RS-232 baud rate the unit would use to communicaie serially. It is in face the baudrate used internally to translate TCP/IP communication to RS_232



Select menu item "Connection", make sure "Accept Incoming" is set to "Yes" and verify the port used.



 Select menu item "Configurable pins" and make sure the settings are as below.



CGEIB-IP Setup

As described above (1. Functional Description), a Crestron CGEIB-IP can be setup to communicate with other KNX units based on Group Addresses.

When using Group Addresses the Crestron programmer needs to know how the KNX installation has been programmed exactly. He/she needs to know which KNX objects are programmed on which Group Addresses so that the Crestron CGEIB-IP can then directly control those Group Addresses.

With Group Address oriented programming, since an object (e.g. the state of a lamp) can be set by multiple Group Addresses the Crestron processor might need to monitor multiple Group Addresses to decide on the state of an object.

KNX-units send information over the network which contains the following:

- Hardware Address from the transmitting unit.
- Group Address of the function that has to be controlled.
- Data that will trigger the function.

In Group Address oriented programming, the hardware addresses are not important for Crestron, the Group Addresses and expected data format however are. The installer uses the Group Addresses to define what functions can be controlled by the KNX installation. For example every controllable light zone will have at least one. By sending a value to this address the particular function will be triggered. E.g. sending the value 0 to this address will result in the light switching off. A group address list shows the Crestron programmer which functions are possible and how they can be triggered.

Extra to every group address you have information about the data - type, meaning the format of the expected data. The type is specified by the number of bits used; the general types are 1, 4, 8, 16, 24 or 32 Bit. The KNX installer can produce the group-list with the ETS projection software.

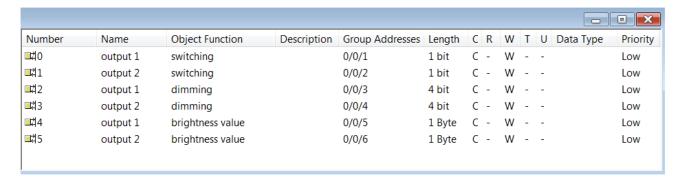
This is an example of a series of Group Addresses to control two dimmers. Each dimmer is controlled using three different Group Addresses: one for switching, one for dimming and one for setting the value.

The group addresses themselves exist out of three numbers divided by a forward slash, e.g. 1/0/13. The data types in this example are 1 bit (switching), 4 bit (dimming) and 1 byte (absolute value).

The ETS software can be set to use either "triple" Group Addresses (e.g. 0/1/0) or "double" group addresses (e.g. 0/15).

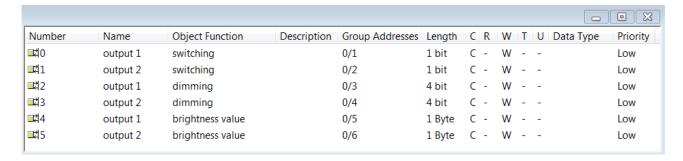
The possible values of the "triple" group addresses are: HG/MG/UG

- HG: 0..15MG: 0..7
- UG: 0..255



The possible values of the "dual" group addresses are: HG/UG

HG: 0..15UG: 0..2047



Inserting Group Addresses in the CGEIB-IP

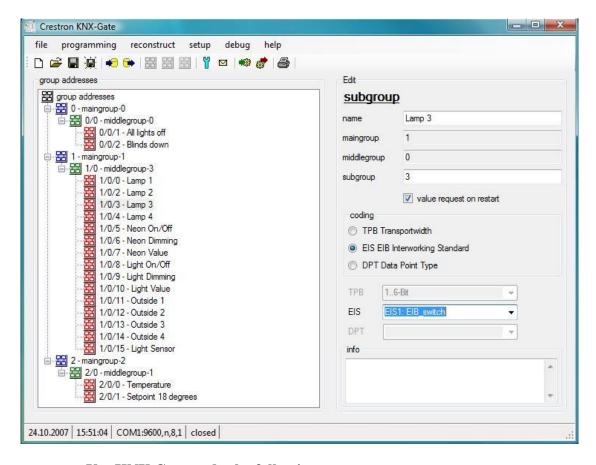
Once it is clear which Group Addresses and data types are required they have to be inserted in the CGEIB-IP. The CGEIB-IP uses an internal comparison table with the required addresses, so it will only pass through the telegrams from and to the bus when the Group Addresses that are listed in the table. Therefore it is required to insert all the used addresses in the Crestron CGEIB-IP with the help of the configuration software, **KNX-Gate**. To make this easier it is best to create a data file containing all relevant information. Alternatively you can import the ETS configuration in CSV format (export file) straight into the CGEIB-IP. It is also possible to transfer an old project, in EGT format, from a previous CGEIB-IP configuration.

If you need more information to import ETS files, please type "F1 \rightarrow Functions \rightarrow Import and export file" in the KNX-Gate software for further information.

The list will be sent from the PC to the CGEIB-IP over a direct serial connection. The RS-232 cable must be a "full" cable – all pins connected!

Please be careful with the option "Value request on restart". After a reset Group Addresses marked as such will automatically be asked for their current status which on its turn will increase the bus traffic. This however only is the case when the CGEIB-IP is set to have no transmission limits (more info in this document). All parameters/setting should be discussed with the KNX programmer.

When you experience problems during the upload of software or firmware, temporarily disconnecting the KNX bus will help.



Use KNX Gate to do the following

- Insert Group Addresses and their corresponding data type
- Change the CGEIB-IP baud rate: 9600 or 38400
- Set KNX transmission settings (Telegrams per second, Transmission limits)
- Import ETS3 project files
- Import .egt data from an older CGEIB-IP configuration
- Export tables in ETS-CSV format to allow import in the ETS. This simplifies the creation of filter tables.
- Download the last loaded filter table from the CGEIB-IP with the option "Start reconstruction"
- Set CGEIB-IP communication parameters like: "Transmit for received data" and "Acknowledge for transmit"

Communication parameters

Under "Setup → Gateway setup" you can change the following options:

• Transmit for received data on KNX:

The Crestron controller will automatically receive data from the KNX units when their values change.

Example: KNX Group Address 0/0/1 changes the value from 0 to 1 – this information will then be transmitted to the Crestron controller. It is advised to have this "always activated".

• Acknowledge for transmit on KNX:

The Crestron controller receives a confirmation from the transmitted telegram, when this changed the setting in the KNX bus unit.

Example: When the Crestron controller changes the value of the KNX group address 0/0/1 from 0 to 1, the CGEIB-IP will return this command resulting in immediate feedback on the button. It is advised to have this "always activated".

Baudrate:

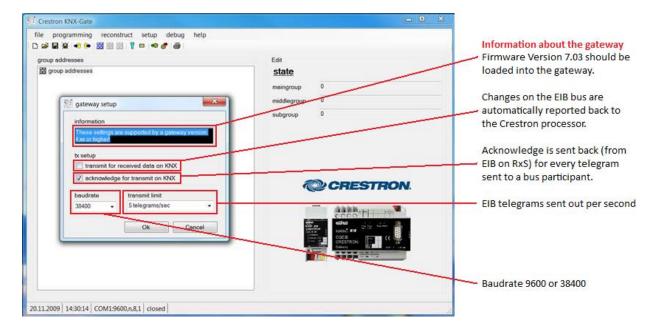
Choose between 9600 and 38400. It is advised to use 38400.

Transmit limit:

Transmission limitation of telegrams: 2, 5 or none. **It is advised to use 5** Important: this can influence the bus-load, for example the response speed to Crestron. Switching of the limiter should only be done when possible, after verification with the KNX installer.

Be aware that adjustments to checkboxes described above need to be uploaded with the address list to confirm the adjustment.

More information on these options can be found in the KNX software.



Note

Minimal software requirements: Microsoft.NET Framework 2.0 or higher. (Freely available from the Microsoft website)
The CGEIB-IP should be loaded with firmware 7.03. Every CGEIB-IP can be updated with this firmware via the KNX-Gate software. (Firmware Gateway_Flash_C7v03.H86)

Installation

- Attach the Crestron CGEIB-IP to the DIN rail.
- Connect the serial or the CAT5 cable
- Connect the KNX bus
- Connect the power source to power up the CGEIB-IP

Programming Software

Have a question or comment about Crestron software?

Answers to frequently asked questions (FAQs) can be viewed in the Online Help section of the Crestron website. To post a question or view questions you have submitted to Crestron's True Blue Support, log in at http://support.crestron.com. First-time users will need to establish a user account.

Earliest Version Software Requirements for the PC

NOTE: Crestron recommends that you use the latest software to take advantage of the most recently released features. The latest software is available from the Crestron website.

Crestron has developed an assortment of Windows®-based software tools to develop a controlled system. You can create a program to control the Crestron CGEIB-IP control system using the Crestron programming tool SIMPL Windows.. For the minimum recommended software versions, visit the Version Tracker page of the Crestron website (www.crestron.com/versiontracker).

Programming with SIMPL Windows

SIMPL Windows is Crestron's premier software for programming Crestron control systems. It is organized into two separate but equally important "Managers".

Configuration Manager

Configuration Manager is the view where programmers "build" a Crestron control system by selecting hardware from the *Device Library*.

 To incorporate the Crestron CGEIB-IP into the system, drag the Crestron KNX IO from the User module | Product module folder after copying the modules to the User macro folder or the same folder where the project is stored

CProgram Manager

Program Manager is the view where programmers "program" a Crestron control system by assigning signals to symbols.

The symbol can be viewed by double clicking on the icon or dragging it into *Detail View*. Each signal in the symbol is described in the SIMPL Windows help file (**F1**). The Crestron KNX IO module should be placed in the user database specified in the SIMPL Windows software.

Example Program

An example program for the Crestron CGEIB-IP is available from the Crestron website.

Uploading and Upgrading

Crestron recommends using the latest programming software and that each device contains the latest firmware to take advantage of the most recently released features. However, before attempting to upload or upgrade it is necessary to establish communication. Once communication has been established, files (for example, programs or firmware) can be transferred to the device)..

Programs and Firmware

Program or firmware files may be distributed from programmers to installers or from Crestron to dealers. Firmware upgrades are available from the Crestron website as new features are developed after product releases. One has the option to upload the CGEIB-IP firmware via the KNX-Gate software (RS-232 only).

SIMPL Windows

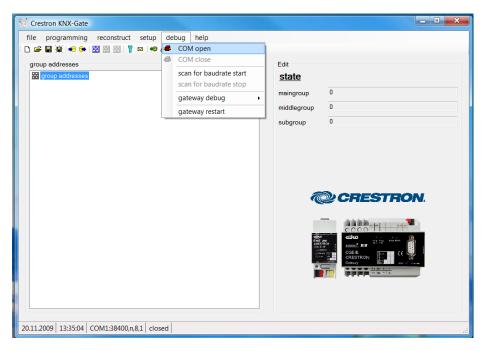
If a SIMPL Windows program is provided, it can be uploaded to the control system using SIMPL Windows or Crestron Toolbox

Firmware

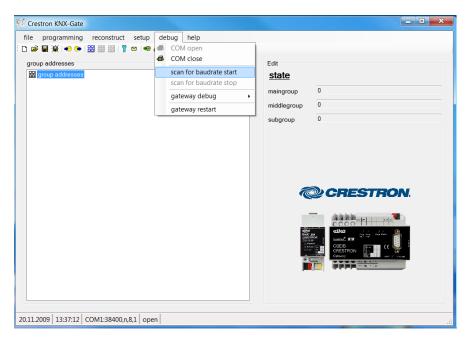
Check the Crestron website to find the latest firmware. (New users may be required to register to obtain access to certain areas of the site, including the FTP site.) Follow the following procedure to upload a new firmware.

1) Open KNX-Gate

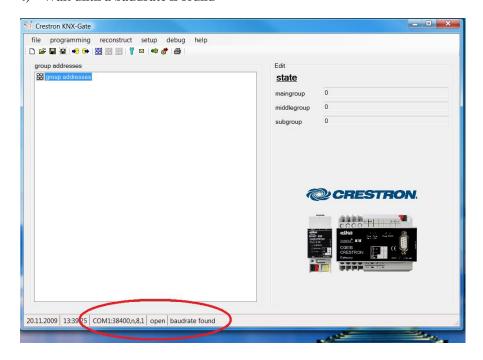
2) Open the COM port



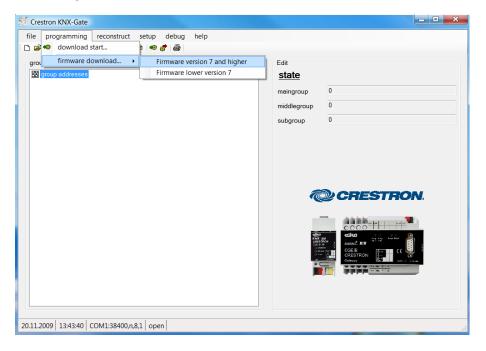
3) Scan for the correct baudrate



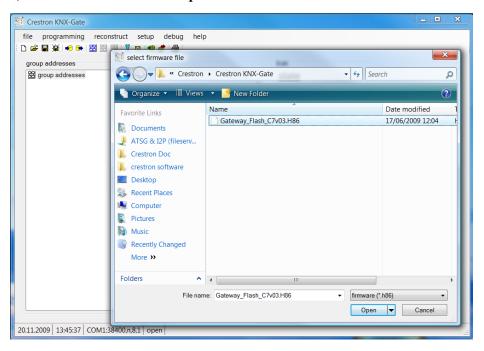
4) Wait until a baudrate is found



5) Select Programming, then firmware download and then Firmware version 7 and higher



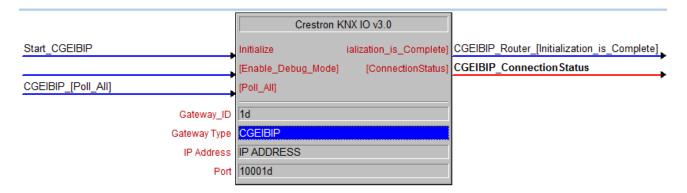
6) Select firmware and click open



The CGEIB-IP will now be updated with the new firmware

Operation

Main Module: Crestron KNX IO v3.0



The "Crestron KNX IO v3.0" module deals with the CGEIB-IP communication. The module communicates via TCP/IP with the CGEIB-IP. To configure the module the user should fill in the correct IP address and Gateway ID. The Gateway ID is used to associate the IO module with other KNX data type modules in the program. Up to 500 KNX data type modules can be linked to one IO module This module is ALWAYS required.

The Initialize input needs to be pulsed once to start the module. This is required to connect the IO module with all KNX data type modules with the same Gateway ID. Once the Initialization_is_Complete output latches high to indicate that the modules are ready to be used.

The ConnectionStatus output provides feedback on the current status of the TCP/IP connection with the CGEIB-IP.

Other functionality includes polling the value for all associated KNX data type modules and enabling/disabling debug mode.

Debug mode should be turned off during normal operation.

Group Modules

Basically for every Group Address that needs to be controlled a KNX data type will need to be inserted, no matter if it deals with control, feedback or both.

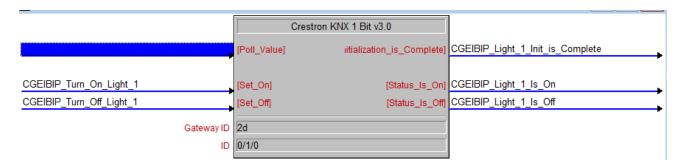
For every data-type (number of data-bits) there is a separate module. The principle is however identical for all of them.. Every module has a parameter field that needs to contain the Group address of the unit to be communicated with. Other signals and parameters depend on the data-types.

The different types of Data Type modules

For every different data type in the KNX system (also called EIS type) there is a specific Crestron module, this will allow you to send or read out any specific KNX command or signal.

Data type 1 bit

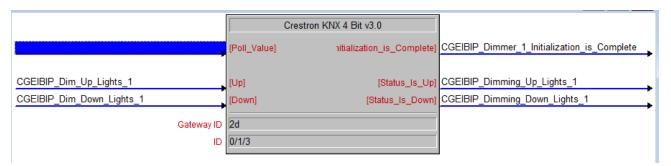
The most used data types are binary switch functions (on/off). They are used for a lot of different purposes like switching lamps, triggering presets, activate alarm functions...



When the inputs for "On" or "Off" go high the required commands are triggered. The "Status_Is_On" and "Status_Is_Off" will be triggered accordingly to represent the status of the data type.

Data type 4 bit

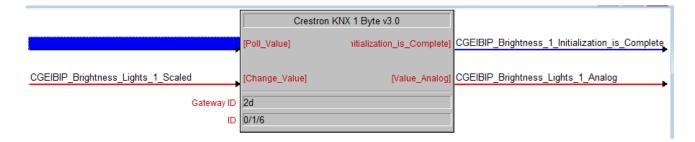
The dimming data-type is a 4-bit type and is commonly used to control dimmers. The 4 bit module requires the usual address parameters. Dimming speed is set standard to 1 although the KNX has 7 different dimming speeds. Speed 1 (slow) is standard as this proved to be sufficient. The feedback shows the dimming up and dimming down activity only, not the light level.



The feedback is independent from the dimming speed. Even when an KNX button panel controls the same dimmer with a different speed the feedback will still be produced.

Data type 1 Byte

The 1 Byte values are being used for all sorts of things with KNX, however in most of the cases it is used for controlling dimmer with absolute values (e.g. level 70%). Therefore the KNX 1Byte module requires an analog value on its input, it also gives out an analog value as feedback:



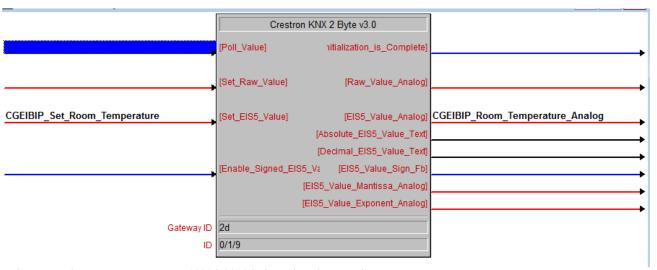
Every change of the input signal will result in a string being sent out. It uses the lower 8 bits of the analog signal. The value of the input signal should therefore range between 0 and 255. The analog input signal can be generated by an Analog Initialize symbol (see above).

Also the output signal ranges from 0 to 255 (low byte).

Data type 2 Byte

The 2 byte data type is almost identical to the 1 Byte data type. In this case however the value to be controlled and read out is 16 bit (0d to 65535d). 2Byte modules are mostly used to read out analog values like temperature.

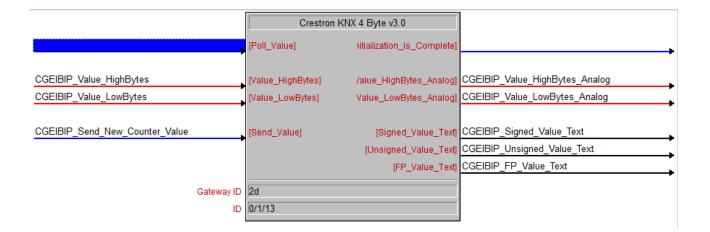
The module also offers inputs and outputs to use the EIS type. EIS5 is a KNX data type that is commonly used to send a 2 Byte decimal value to the KNX system. E.g. Set the "Set EIS5 Value" input to 2550 to send 25,5 to the KNX system.



Values to set the correct temperature (1800d, 2200d) depend on the KNX device.

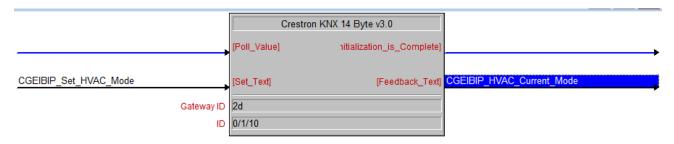
Data type 4 Byte

The 4 byte module is almost identical to the "Crestron CI-KNX 2 Byte v1.6" module. In this case however the value to be controlled and read out is 32 bit (0d to 4294967295d). SMPL windows only supports 16 bit analog signals so the 32 bit value is split into two 16 bit signals. These signals represent the 16 high and low bits. The module also offers a signed and unsigned and Floating Point serial outputs to display the 4 Byte value.



Data-type 14 Byte

The 14 byte module sends and receives ASCII text messages from the KNX network. With this module you can request a status (e.g. "Door open") or send text to a display (ex. Radio RDS text). If the strings being sent are less than 14 bytes then the module will automatically add "zero" bytes.



Polling

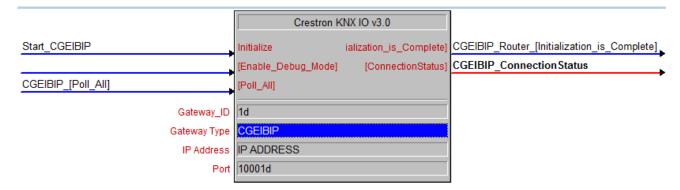
The challenge when working with a KNX system is that feedback signals are not always generated automatically for every change on the network.

E.g. a dimmer can have multiple group addresses via which it is controlled. It can, for example, use 3 addresses: One to switch on/off (1 bit), one to dim up/down (4 bit) and one to create a level-feedback value (absolute value – 1byte).

With every action the light level can change, so the momentary level feedback should also change when dimming takes place. One can choose to not get live feedback as such, by deselecting the "Transmit for received data" checkbox (page 9-10). Therefore, KNX Data Type module contains a digital input called "Poll_Value" for polling the value for the KNX data type.



When the "Poll_All" input of the "KNX IO v3.0" module is pulsed, the module polls for feedback of every used Group Address. The answer is processed by the normal group modules and appears at the particular feedback output.



The "Poll_All" input should only be used at the start of the program to sync all KNX modules.

Use the "Poll_Value" inputs on the KNX Data Type modules to poll for individual values once the program is started.

Polling is only possible if you enable the "Read" flag in the ETS software.

Problem Solving

No Ethernet communication on CGEIB-IP

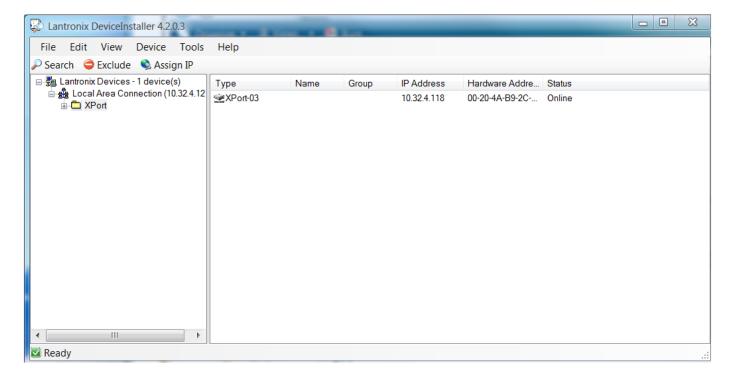
Recently we have been working with the manufacturer of the CGEIB-IP to include a more Crestron friendly web interface. This web interface will make it possible to set up your CGEIB-IP with group addresses by using only your web browser. That way, there will be no need to connect to your CGEIB-IP with the KNX-Gate software.

Since our older CGEIB was completely sold out, we already released the CGEIB-IP with the original web interface. This web interface can be used to set up the TCP-IP communication with the CGEIB-IP, but does not allow you to set up the device with group addresses. You'd still need to use KNX-Gate to set the group addresses via RS-232.

Now, there has been a wrong shipment of CGEIB-IP's that included a beta version of our new Crestron friendly web interface. You will not be able to connect to these CGEIB-IP's via TCP-IP. We will describe how to roll back to the original web interface and set it up for TCP-IP communication.

Note that the CGEIB-IP has two separate firmwares. One firmware defines the web interface; the other defines the Crestron communication. This document describes how to roll back the web firmware to the original web interface. The Crestron firmware still needs to be 7.03 and can be uploaded with the latest KNX-Gate software.

 Please use the DeviceinstallerTMsoftware to examine the Ethernet address of the CGEIB-IP. By default it is set up as DHCP, so it should be assigned an address by the DHCP server automatically. In DeviceinstallerTM, select "Device" → "Search" to autodiscover the CGEIB-IP.



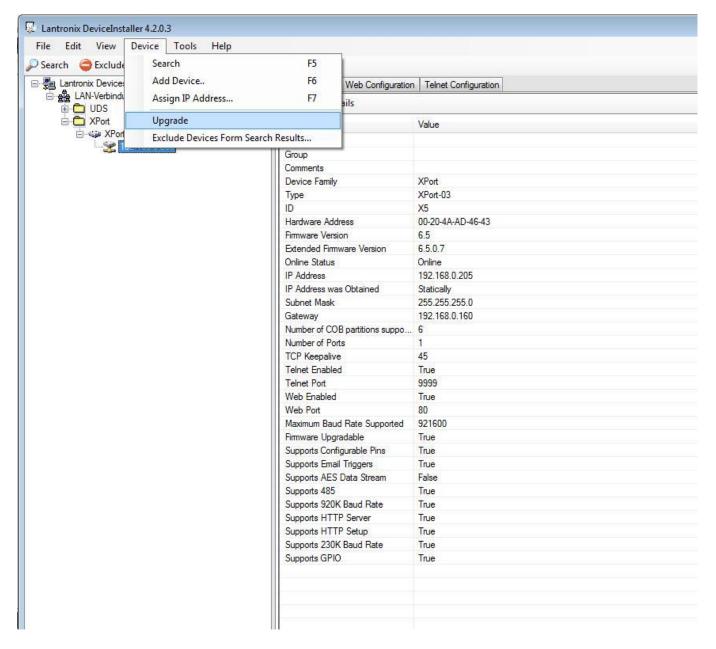
2) Use your web browser to browse to this IP address. In case your browser displays a web interface as the one below (with a Crestron banner) the web firmware of the CGEIB-IP needs to be updated.

7			⊉C R	ESTR	ON.	-12	RVE	
	SIL				EIB-IP			3
Deutsch Crestron International Login	Help	Gateway	IP	Login	Password	Debug	Im-/Export	Logout
			Plea	ise enter the passwor	rd.			
Web: V1.0.1 Gate	eway: V7.02 RAM: 0	x00180x001F I	ROM: 0x00100x	2F21 Groupaddres	s count: 5			

3) Use the Lantronix Device Installer software (Vesion 4.2) and select "Device" → "Search". Select the CGEIB-IP in the list on the left hand side, highlight it and select "Device" → "Upgrade".

When asked for, select the "XPort03-ROM6507COB1602.lxi" file and start the upgrade.

Please contact Crestron Technical Support for the XPort03-ROM6507COB1602.lxi file.



4) After a successfull upgrade, the web interface should be changed to the version below. (If you are prompted for username and password, you can just leave these blank and press "Enter".)



5) Refer to **Changing the IP-address configuration** on page 6 of this manual to correctly set up you CGEIB-IP

Reference Documents

The latest version of all documents mentioned within the guide can be obtained from the Crestron website (www.crestron.com/manuals). This link will provide a list of product manuals arranged in alphabetical order by model number.

List of Related Reference Documents

DOCUMENT TITLE

2-Series Control Systems Reference Guide

Further Inquiries

If you cannot locate specific information or have questions after reviewing this guide, please take advantage of Crestron's award winning customer service team by calling Crestron at +32-15-509920.

You can also log onto the online help section of the Crestron website (www.crestron.com/onlinehelp) to ask questions about Crestron products. First-time users will need to establish a user account to fully benefit from all available features.

Future Updates

As Crestron improves functions, adds new features and extends the capabilities of the Crestron CGEIB-IP, additional information may be made available as manual updates. These updates are solely electronic and serve as intermediary supplements prior to the release of a complete technical documentation revision.

Check the Crestron website periodically for manual update availability and its relevance. Updates are identified as an "Addendum" in the Download column.

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