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# Track the invisible with the **IAQ multi-sensor**

We all know how important indoor air quality is, especially after experiencing the COVID-19 pandemic. But how do you measure something you can't see? The answer is simple — Siemens IAQ multi-sensor.

Siemens 7-in-1 IAQ multi-sensor measures everything needed to ensure the highest comfort and safety for occupant well-being and productivity. Accurately measure temperature, humidity, PM2.5, $CO_2$, TVOCs, noise and light with one device. Complete with BACnet IP/ MSTP and LoRaWAN connectivity for simple connection and installation.

Visit usa.siemens.com/sensors to learn more.



SIEMENS

# Connect Box




## A simple, universal and open IoT solution to connect and monitor small- and medium-sized buildings

**Connect Box enables you to manage small- to medium-sized buildings in a smarter and simpler way. It's an IoT building monitoring solution that connects all your devices in a few clicks, as well as enables integration to your existing building automation system (BAS), building management system (BMS), or cloud application.**

### One interface is all you need

Manage your daily tasks in a single, cloud-based interface with no additional gateway or software. With this one device, you can choose the right functionality for your needs with two remotely deployed licenses.

1) The Cloud license allows you to remotely connect, monitor and operate the essentials of your small- to medium-sized building. The license provides:
   - Intuitive dashboard with building management system essentials: monitoring, alarms notification, and trend graphical view
   - Powerful integrations with third-party applications
   - API documentation and management
2) The On-premise license enables easy integration of your wired and IoT devices into your building automation system, BMS or cloud. The license provides:
   - Remotely configurable on-site integration
   - Intuitive data download and redirectable to your cloud
   - 4G SIM card & data plan for secure and configurable network access

## Connect, monitor and operate

Connect Box enables connection to a wide range of equipment in a building: sensors and meters; heating, cooling, and air handling equipment; building automation and control systems (BACS) based on a manufacturer-agnostic devices and equipment catalog. It easily connects to existing BACS via its bus as a third-party device and automatically creates a new BAC system if none is available. It is fully configurable remotely via a dedicated user web interface.

## Features

- Flexible (remote) monitoring, controls, and logging: Collects data and controls equipment on-premise and/or in the cloud.
- Smart protocol gateway: Unifies typical communication protocols in one device.
- Plug-and-play web connectivity: Automatically connects to the Internet and receives over-the-air updates via GSM/4G (or optionally via Ethernet).
- Integrated building management essentials: Dashboard, visualization and alarming functionality is available in the web interface.

Connect Box also features an extensive library of more than 800 field and equipment devices ready to connect (see QR code). The smart protocol gateway supports 11 communication protocols; both standard and proprietary, wired and wireless protocols, including a local IoT private network based on LoRa.

## Functions

- Plug-and-play installation and configuration experience optimized for installers such as electricians
- Typically retrieves equipment data at 10-minute intervals – adjustable by user per protocol and data point
- Powerful integration of third-party applications via public APIs, MQTT or Webhooks
- LoRaWAN support to connect a wide range of sensors and devices.
- User web interface to remotely configure and provide optional, but important BMS functionality, for selected licenses

## Download Device Compatibility List

## Connect Box Hardware and Software Options

| Product | Type | Details |
|---|---|---|
| Connect Box (Hardware) | Connect Box for EMEA | Supports dedicated LoRaWAN and GSM frequencies required for the individual regions<br>Details in hardware data sheet |
| | Connect Box for North America | |
| Cloud license options (Software) | 1-year license for Connect Box | Available in types:<br>IoT, small, medium, large, satellite.<br>Selection of licenses available as Saas subscription variant via Subscription Manager only. |
| | 3-year license for Connect Box | |
| | 5-year license for Connect Box | |
| | 50 data points add-on | Increases the IN / OUT data point limit of the license<br>Can be used cumulatively up to data point limit |
| | 1,000 data points add-on | |
| | Control add-on | Provides optional control functions |
| On-premise license options (Software) | One-time purchase on-premise license for Connect Box | Available in types:<br>IoT/IoT+, small, medium, large, Xlarge.<br>Selection of licenses available as Saas subscription variant via Subscription Manager only. |
| | Remote configuration renewal option | Renewal option after remote configuration functionality expired after 3 years of operation |
| | Upgrade option | Allows upgrade to other on-premise license types by paying the price difference only |
| | Control add-on | Provides optional control functions |

## License Comparison

| Functionality | Cloud | On-premise |
|---|---|---|
| Multi-site management | ● | ● |
| Connectivity to the web | ● | Remote configuration only |
| GSM/4G data package | ● | Remote configuration only |
| Automatic software updates | ● | On request |
| Fully cloud-based service | ● | — |
| Server communication SSL/MQTT | ● | — |
| APIs (RESTful, Webhooks, Cloud2Cloud MQTT) | ● | — |
| Flexible license duration | ● | — |
| Local gateway/server | ● | ● |
| All-in-one purchase | ● | ● |
| Control functionality | ● | ● |

## Cloud License Details

| License features | IoT | Small | Medium | Large | Satellite* |
|---|---|---|---|---|---|
| IoT connectivity** | ● | ● | ● | ● | ● |
| Wired connectivity** | — | Meters only | ● | ● | ● |
| Local server / gateway** | ● | ● | ● | ● | — |
| IN Data points included (OUT unlimited)** | 100 | 100 | 200 | 1,000 | 20 |
| Max. data points via add-ons | 400 | 400 | 600 | 10,000 | 50 |
| GSM/4G SIM card & data plan | ● | ● | ● | ● | ● |
| Alarms, schematics, graphs | ● | ● | ● | ● | ● |
| Web interface for configuration | ● | ● | ● | ● | ● |
| Multi-sites management | ● | ● | ● | ● | ● |
| APIs (RESTful, Webhooks, Cloud2Cloud MQTT) | ● | ● | ● | ● | ● |
| Control functionality (add. License required) | ● | ● | ● | ● | ● |
| **IN protocols (client)** | | | | | |
| LoRaWAN | — | — | ● | ● | ● |
| BACnet*** | — | ● | ● | ● | ● |
| Modbus | — | — | ● | ● | ● |
| M-Bus | — | — | ● | ● | ● |
| LON | — | — | ● | ● | ● |
| LPB | — | — | ● | ● | ● |
| KNX | — | — | ● | ● | ● |
| Diematic | — | — | ● | ● | ● |

* Only available in combination with a Medium or Large Cloud license. Allows specified functionality on another hardware in the same organization. The 50 DP add-on is available but limited to 30 additional data points.

** See section General characteristics and important terminology for details.

***Either send or receive data, parallel operation not supported.

## On-Premise License Details

| License features | IoT / IoT+ | Small | Medium | Large | XLarge |
|---|---|---|---|---|---|
| **IN protocols (client)** | | | | | |
| LoRaWAN | ● | — | ● | ● | ● |
| BACnet* | — | ● | ● | ● | ● |
| Modbus | — | ● | ● | ● | ● |
| M-Bus | — | ● | ● | ● | ● |
| LON | — | ● | ● | ● | ● |
| LPB | — | ● | ● | ● | ● |
| KNX | — | ● | ● | ● | ● |
| Diematic | — | ● | ● | ● | ● |
| **Main features** | | | | | |
| Local gateway/server (no data point limit): BACnet IP, Modbus TCP, MQTT | ● | ● | ● | ● | ● |
| IN data points included (OUT unlimited) | 100 / 250 | 100 | 500 | 1,000 | 5,000 |
| **Other features** | | | | | |
| Multi-site management | ● | ● | ● | ● | ● |
| Web interface for configuration | ● | ● | ● | ● | ● |
| Control functionality (add. License required) | ● | ● | ● | ● | ● |
| GSM/4G SIM card & data package | For configuration data only | | | | |

* Either send or receive data, parallel operation not supported.

## Connect Box Ordering Details:

| Hardware | SEN | Type |
|---|---|---|
| Connect Box Hardware North America | **S55813-Y110** | CWG.BOX-NA |
| **Software — Cloud** | **SEN** | **Type** |
| Connect Box Cloud<br>1 / 3 / 5 Year IoT | **P55695-L100-A110**<br>**P55695-L100-A210**<br>**P55695-L100-A310** | CWG.L1-IOT<br>CWG.L3-IOT<br>CWG.L5-IOT |
| Connect Box Cloud<br>1 / 3 / 5 Year S | **P55695-L100-A110**<br>**P55695-L100-A210**<br>**P55695-L100-A310** | CWG.L1-S<br>CWG.L3-S<br>CWG.L5-S |
| Connect Box Cloud<br>1 / 3 / 5 Year M | **P55695-L100-A120**<br>**P55695-L100-A220**<br>**P55695-L100-A320** | CWG.L1-M<br>CWG.L3-M<br>CWG.L5-M |
| Connect Box Cloud<br>1 / 3 / 5 Year L | **P55695-L100-A130**<br>**P55695-L100-A230**<br>**P55695-L100-A330** | CWG.L1-L<br>CWG.L3-L<br>CWG.L5-L |
| Connect Box Cloud<br>1 / 3 / 5 Year Sat. | **P55695-L100-A140**<br>**P55695-L100-A240**<br>**P55695-L100-A340** | CWG.L1-SAT<br>CWG.L3-SAT<br>CWG.L5-SAT |
| Connect Box Cloud<br>1 / 3 / 5 Year 50 DP | **P55695-L100-A160**<br>**P55695-L100-A260**<br>**P55695-L100-A360** | CWG.L1-ADD2<br>CWG.L3-ADD2<br>CWG.L5-ADD2 |
| Connect Box Cloud<br>1 / 3 / 5 Year 1000 DP | **P55695-L100-A170**<br>**P55695-L100-A270**<br>**P55695-L100-A370** | CWG.L1-ADD3<br>CWG.L3-ADD3<br>CWG.L5-ADD3 |
| Connect Box Cloud Control<br>1 Year add-on | **P55695-L100-A180** | CWG.L1-ADDC |
| **Important:** The default duration of the above license is one year.<br>Order and stack multiple licenses in case a multi-year duration is intended (e.g. 3 pcs = duration of 3 years). | | |
| **Software — On-premise** | **SEN** | **Type / details** |
| Connect Box On-premise IoT | **P55695-L100-A400** | CWG.L6-IOT |
| Connect Box On-premise IoT+ | **P55695-L100-A405** | CWG.L6-IOT+ |
| Connect Box On-premise S | **P55695-L100-A410** | CWG.L6-S |
| Connect Box On-premise M | **P55695-L100-A420** | CWG.L6-M |
| Connect Box On-premise L | **P55695-L100-A430** | CWG.L6-L |
| Connect Box On-premise XL | **P55695-L100-A440** | CWG.L6-XL |
| Connect Box On-premise renew* | **P55695-L100-A450** | CWG.L6-R |
| Connect Box On-premise upgrade | **P55695-L100-A460**<br>**P55695-L100-A470**<br>**P55695-L100-A480** | CWG.L6-ADD1, upgrade from IoT / IoT+ / S to M<br>CWG.L6-ADD2, upgrade from M to L<br>CWG.L6-ADD3, upgrade from L to XL |
| Connect Box On-premise Control add-on | **P55695-L100-A490** | CWG.L6-ADDC |
| One-time purchase compatible with On-premise license types only. Permanently unlocks the Control functionality.<br>**Important:** Unlike the regular On-premise licenses, the Control Add-on license cannot be upgraded to an equivalent Cloud license.<br>If the license is switched to the Cloud variant, the Control license needs to be purchased again. | | |
| **SaaS subscriptions**** | **SEN** | **Type / details** |
| Connect Box Cloud S / M / L | **P55695-L110-A110** | Equivalent to CWG.L1-S / M / L<br>depending on selection in Subscription Manager |
| Connect Box On-premise S / M / L | **P55695-L110-A410** | Equivalent to CWG.L6-S / M / L depending on selection in Subscription Manager |

* Extends remote configuration functionality for three years.

** SaaS subscriptions are available via the Siemens Subscription Manager on

## Typical Bundles Reference

| Example Bundle | SEN | Type | Details |
|---|---|---|---|
| **Bundle 1:** Connect Box On-premise license | **S55813-Y100** | CWG.BOX-EU | — |
| | **P55695-L100-A420** | CWG.L6-M | Activates and provides on-premise functionality |
| **Bundle 2:** Connect Box Cloud license | **S55813-Y100** | CWG.BOX-EU | — |
| | **P55695-L100-A420** | CWG.L6-M | Activates and provides on-premise functionality |
| **Bundle 3:** Connect Box On-premise license + Siemens device | **S55813-Y100** | CWG.BOX-EU | — |
| | **P55695-L100-A420** | CWG.L6-M | Activates and provides on-premise functionality |
| | All Siemens devices supporting open BACS protocol types (such as BACnet, Modbus, M-Bus) can be connected to the Connect Box. A restricted range of device based on proprietary protocols (KNX PL-Lin, LPB, Diematic, LON) is supported. A list of devices supporting plug and play connectivity is available on the Connect Box product website. | | |
| **Bundle 4:** Connect Box On-premise license + Control | **S55813-Y100** | CWG.BOX-EU | — |
| | **P55695-L100-A420** | CWG.L6-M | Activates and provides on-premise functionality |
| | **P55695-L100-A490** | CWG.L6-ADDC | Permanently unlocks the Control functionality |
| **Bundle 5:** Connect Box Cloud license + Satellite | **S55813-Y100** | CWG.BOX-EU | Total 2 pieces required<br>1x Connect Box hosting main license,<br>1x Satellite Box |
| | **P55695-L100-A120** | CWG.L1-M | Activates and provides cloud functionality for 1 year |
| | **P55695-L100-A140** | CWG.L1-SAT | Provides 1 year Satellite functionality for an additional Box located at same site |

# Go Wireless!



# **Wireless connectivity** with flexible integration

Wireless sensors simplify installation by minimizing wiring efforts. Versatile placement options offer optimal positioning and flexible integration. Easily collect room data wirelessly and integrate it seamlessly into your automation, BMS, Cloud, or third-party system.

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