

**SIEMENS**



COMPREHENSIVE BUILDING SOLUTIONS IN YOUR HANDS

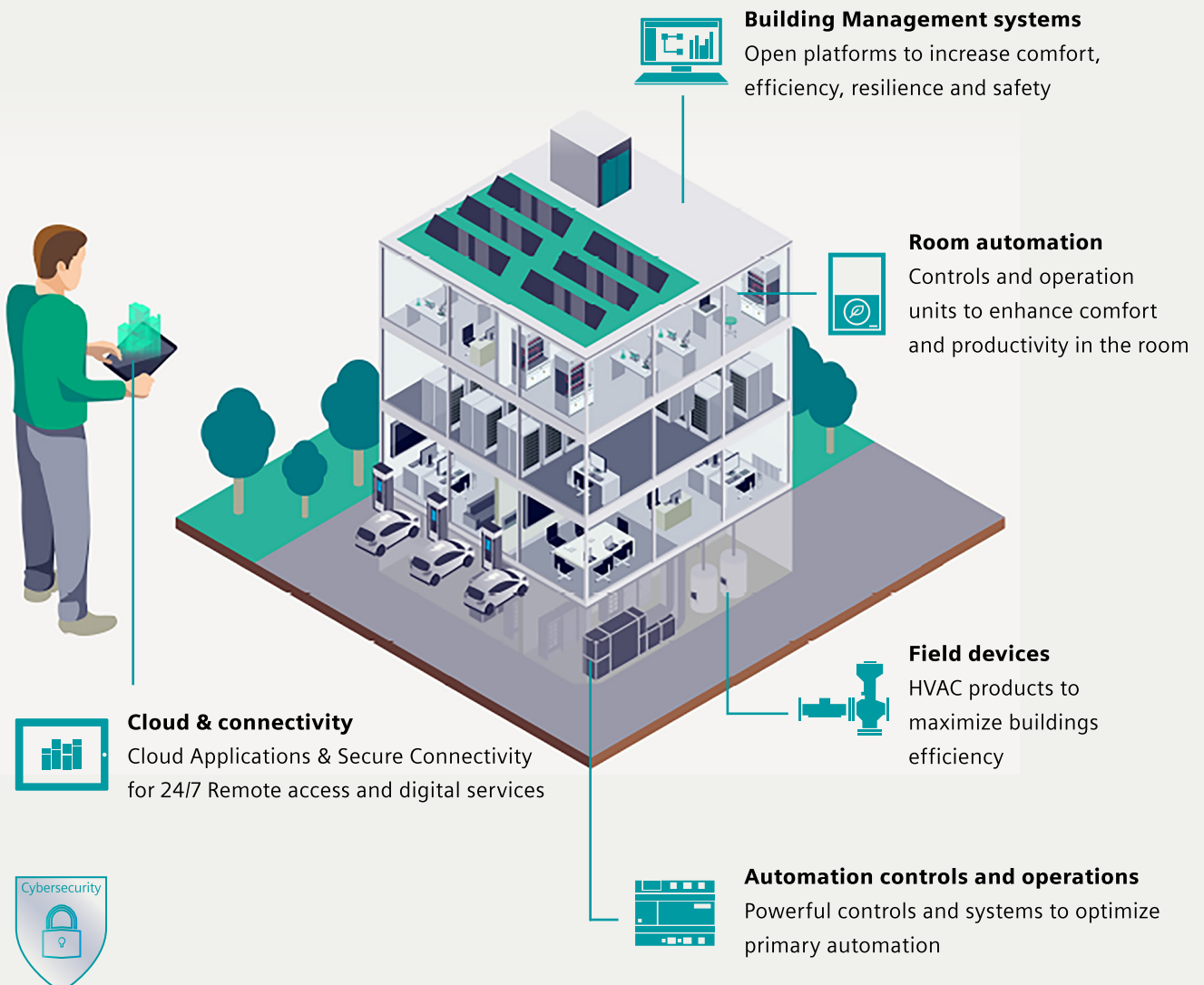
# Desigo System

# A new era for building automation

Times are changing and stakeholders in the building sector are under pressure to meet the growing demand of creating safe spaces for occupants and reduce the carbon footprint of their infrastructure.

Desigo is the proven building automation system from Siemens that enables professionals to respond to these needs. With its recognized potential, Desigo has been able to reinvent itself by integrating the latest technologies to allow a seamless transition towards smart and resilient buildings. Desigo offers a holistic approach to cybersecurity and provide secured solution at every level of building automation.

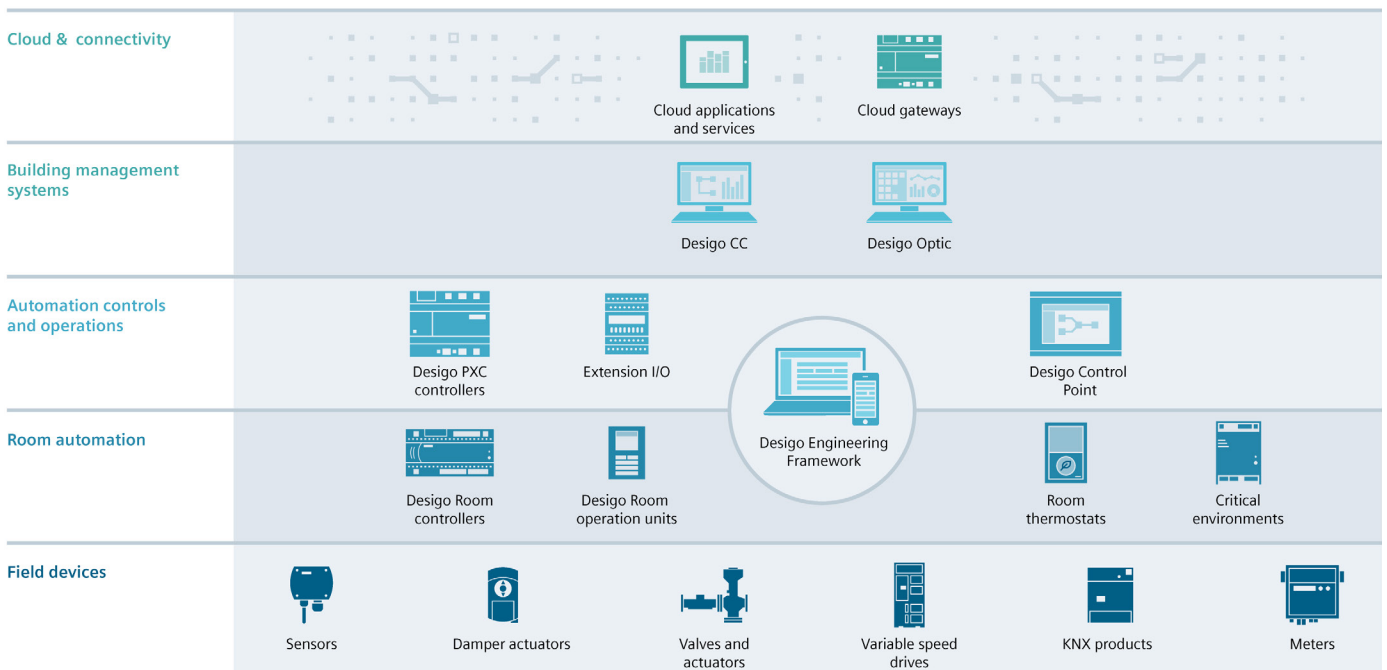
## Tailored solutions for all your building needs



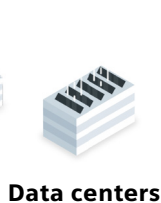
# One system for all requirements of your buildings

The comprehensive Designo system portfolio comprises everything you need to turn your buildings into high-performing ones. Discover a complete suite of cloud applications, building management systems, building automation controls for primary and room and field devices to improve the operations of your building at all levels.

## Designo building automation system



Thanks to its open standard communication and scalability, Designo is able to fit into multiple applications and thrive the performance continuously over time. You get the right tools to manage and connect all disciplines of HVAC, lighting, shades and security for various type of buildings such as:



**... and many  
more**

Explore



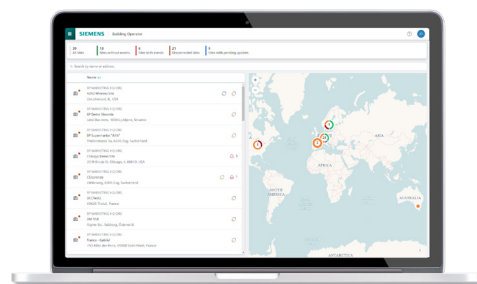
# Cloud applications – Connect, monitor and operate 24/7

Our cloud software portfolio acts as a digital business model enabler. It increases your competitiveness by giving you access to enterprise-class technology and to a whole ecosystem of services. It enables you to adapt to fluctuating business demands and gives the agility to easily scale up.

## Building Operator

Building Operator cloud-based solution remotely operates and monitors building equipment including heating, ventilation, and air conditioning as well as applications and meters for a fleet of connected sites.

- Reduce operational and travel expenses by gaining transparency from remote monitoring 24/7 and avoiding unnecessary travels to the site
- Faster response time and reduced equipment down time for improved business continuity
- Simplify equipment diagnostic activities by remotely accessing on premise web interfaces such as Desigo CC, Desigo Control Point and other applications



Learn more



## Connect Gateways

Connect Gateways ensure cloud connectivity via Ethernet network and allow the smart selection of relevant data points from field devices e.g. building automation controllers, sensors, meter, and fire control panels. Thanks to their edge technology, they pre-process data locally before sending it to the cloud. There the data is utilized by cloud applications such as Building Operator.



Connect X300



Connect X200

Learn more



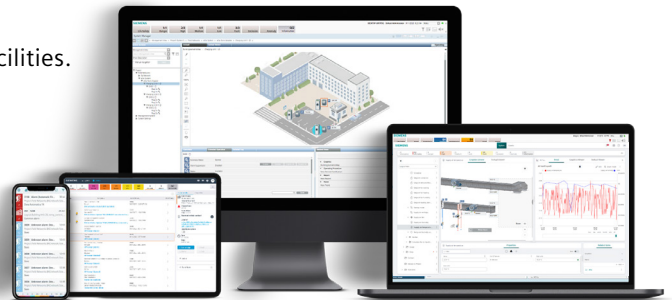
# Building Management Systems – Manage any size or complexity of facility operation

Whether you wish to enhance occupant comfort and productivity or to improve operational and energy efficiency, building management systems enable you to connect, monitor and operate your facility easily.

## Desigo CC

Desigo CC is the integrated building management platform for managing high-performing buildings. With its open design, it has been developed to create comfortable, safe and efficient facilities. It is easily scalable from simple single-discipline systems to fully integrated buildings.

- Integrate multi-discipline systems and devices
- Automate processes and scale your application to meet the requirements of any building or project size
- Operate, monitor and manage HVAC, fire, lighting, power management, security, video and third-party systems through one single interface



## Desigo CC compact

The compact building management platform offers the unique breakthrough features of Desigo CC, focusing on functionalities required by small and medium-size buildings. It can be extended when needed, and proves that building management can be simple and powerful at the same time.

Learn more



## Desigo Optic

Desigo Optic is an open, easy-to-use building management solution for single-discipline systems.

- Make your building data work better for you using native Haystack tagging to standardize data and reduce integration complexity
- Improve insights and real-time decision making
- Have two flexible deployment options as software or as a software-embedded supervisory controller



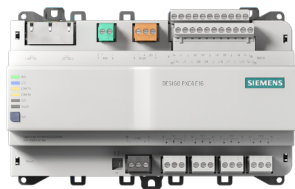
Coming soon

# Desigo PXC controllers - Optimize building efficiency with precise control throughout

Having an automated HVAC system is the key to ensure energy savings and reduced operations costs. Thus, making you compliant to standards and bringing you peace of mind. Siemens offers you the latest technology in building automation to combine high performance with ideal comfort.

## Desigo PXC controllers – Shape the future of building automation

Explore the latest range of primary controllers to achieve a high-performing automation of your buildings. Designed to reduce the energy consumption of building plants, the Desigo PXC controllers enable you to integrate different protocols with no need of additional hardware or software and comes with a license-free engineering suite.



**Desigo PXC4**  
HVAC controller



**Desigo PXC5**  
System controller



**TX-I/O**  
Extension I/O modules

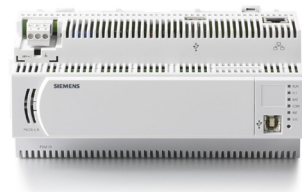
- Seamless integration of different protocols
- License-free engineering suite with pre-configured application libraries
- Advanced connectivity with on-board WLAN and cloud remote access
- Built-in cybersecurity features and ready for BACnet Secure Connect

Learn more

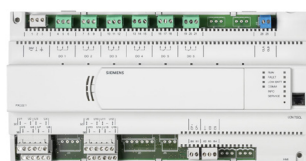


## Desigo PX controllers – the trusted control range of the industry

The flexible, scalable and open controllers satisfy all building and application needs. They can be easily adapted to your needs and offer the highest reliability, thus ensuring maximum value.



**Desigo PX Modular**



**Desigo PX Compact**

Learn more





# Desigo Room automation

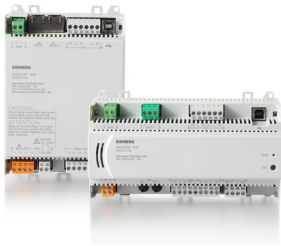
## Experience the ultimate comfort for any room

Room automation is essential for protecting and enhancing the occupants' health as well as increasing productivity at the same time. Instead of separate systems for HVAC, lighting and shade control, each with its own network infrastructure, Siemens provides a system for all three functions in one cost effective solution.

Ensure a comfortable room climate, good air quality and optimal lighting conditions with as little energy as possible. Since Desigo Room Automation supports international communication standards, it can be integrated seamlessly into existing applications.

With Desigo Room Automation achieve:

- Lower investment and installation costs
- Reduced long-term operating costs
- Improved room energy efficiency
- Greater occupant experience and comfort



### Room automation stations

Compact room automation stations for HVAC, lighting, and shading



### Actuating Room devices

Compact room automation stations in combination with actuator for HVAC (VAV & FPB), lighting and shading



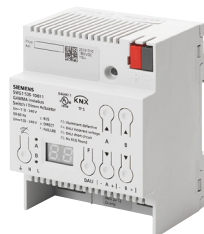
### Room units

Elegant room units with integrated temperature sensors



### Sensors and presence detectors

One sensor. Highest energy efficiency for perfect places.



### Actuators

To control lighting, shading, HVAC in the most efficient way

Learn more





# Desigo Control Point – Building operations at your fingertips

Desigo Control Point helps you to maximize room comfort, monitor and operate your primary plant and display your building data. It facilitates remote building operations by allowing you to access your buildings and plants via touch panels, any PC, or any mobile device. The touch panels are available in different sizes for optimized user experience.

Desigo Control Point is designed to meet the requirements of different users in a building.

- Building operation and monitoring are enabled through intuitive touch panels on the control panel or via computer in the office. Through smart devices, users can also access related information anytime from any location.
- Occupants are able to optimize their rooms. Touch panels can be used as room operator units to control lighting, shading, and indoor climate.
- Building owners can present to tenants their energy savings to encourage them to save even more.
- Building operators and technicians can manage their daily tasks with no need for special training, thanks to straightforward installation and ease of operation.



### **BACnet touch panels**

The BACnet/IP touch panels enable direct connections to any BACnet network



### **Client touch panels**

When your project requires operation of the same system via multiple control panels, the TCP/IP touch panels are the right solution



### **BACnet Web server**

Desigo primary and room automation stations as well as third-party BACnet devices can be operated via BACnet/IP Web servers

Learn more





# Field devices – for complete building efficiency and comfort

All field devices fulfill the highest quality standards, meeting most stringent energy efficiency requirements. Easy handling and long lifecycles are among the essential design criteria. Open communication standards incl KNX, Modbus and BACnet allow seamless integration into any building automation and control systems.



## Room thermostats

Siemens room thermostats offer high energy efficiency, a healthy indoor climate and remote operation for efficient facility management



## Damper actuators

With OpenAir damper actuators you'll benefit from a wide selection of positioning forces, control signals, communication standards and add-on options



## Valves and actuators

With Acvatix valves and actuators fulfill any control and hydronic requirement associated with the generation, distribution and consumption of heating and cooling



## Variable speed drives

The variable speed drives provide a number of strategies for controlling fans and pumps that can achieve up to 60% energy savings compared to conventional control methods



## Sensors

The Symaro sensors offer precise measurements for room and duct applications throughout the entire lifecycle to ensure a healthy and productive indoor climate



## Lighting

Easily manage all aspects of a facility's lighting from a single place



## Meters

A precise acquisition and allocation of the energy consumption of heating, cooling and radiators is not a problem in office buildings and residential areas with our meters.

Learn more



# Realize your smart building with Desigo

Thanks to its open architecture and communication standard, Desigo can be installed in any kind of topologies hassle-free.

Here is an example of how you could realize a simple installation with HVAC and room controls supervised by building management.

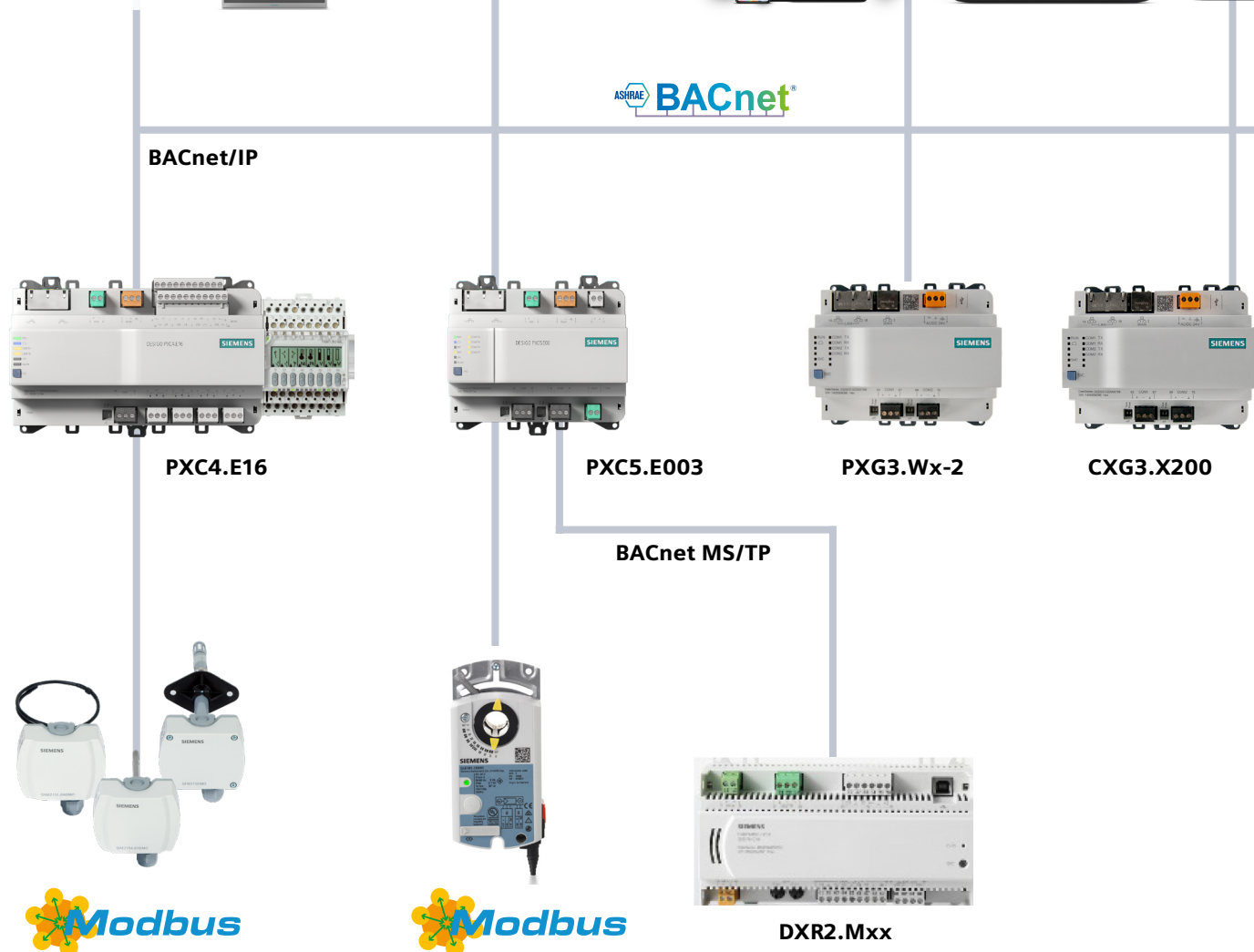
**Desigo Control point**  
Building operations



**Desigo Optic**  
Building management



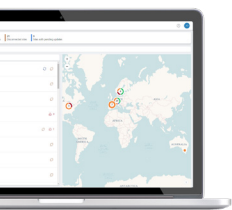
**Desigo CC**  
Open Building Management Platform



Contact  
an expert



Building Operator  
Cloud-based solution



3rd  
integration



SNMP  
IEC61850

3rd  
integration

3rd BACnet



DXR2.Exx



KNX PL-Link



Achieve decarbonization and  
cost-efficient modernization  
of your sites with **Desigo**



*Due to the new hybrid boiler  
plant and the intelligent energy  
and load management by  
Siemens we save a lot of money  
every year – and furthermore our  
flexible energy infrastructure  
helps to decarbonize our produc-  
tion.*

Holger Schygulla  
Managing Director  
Breitenburger Milchzentrale

Smart Infrastructure intelligently connects energy systems, buildings and industries, enhancing the way we live and work to significantly improve efficiency and sustainability.

We work together with customers and partners to create an ecosystem that both intuitively responds to the needs of people and helps customers achieve their business goals.

It helps our customers to thrive, communities to progress and supports sustainable development to protect our planet for the next generation.

**Creating environments that care.**  
**[siemens.com/smart-infrastructure](https://www.siemens.com/smart-infrastructure)**

**Published by**  
**Siemens Switzerland Ltd**

Smart Infrastructure  
Global Headquarters  
Theilerstrasse 1a  
6300 Zug  
Switzerland  
Tel +41 58 724 24 24

**For the U.S. published by**  
**Siemens Industry Inc.**

800 North Point Parkway  
Suite 450  
Alpharetta, GA 30005  
United States

Article no. SIBP-B10003-00-7600 (Status 11/2021)

Subject to changes and errors. The information given in this document only contains general descriptions and/or performance features which may not always specifically reflect those described, or which may undergo modification in the course of further development of the products. The requested performance features are binding only when they are expressly agreed upon in the concluded contract.

© Siemens 2021



**Find a matching partner:**  
**[siemens.com/bt/partner-finder](https://www.siemens.com/bt/partner-finder)**