SIEMENS

Desigo CC™

P55802-Y114-A100

The Desigo CC™ management platform provides an integrated approach to managing and controlling facilities from a flexible, easy-to-use interface that allows users to:

- Operate and monitor the building infrastructure graphically
- Guide operators in the handling of critical situations
- Detect, visualize, and acknowledge/reset faults and alarms
- Collect, visualize, and compare online and offline Trend data
- Create schedules to automate building operation and configure exceptions
- Create and configure report definitions to produce a variety of performance reports
- Create and configure dashboards to monitor Power KPIs
- Store and retrieve system activity data, and view data logs
- Create and execute automated reactions between the networked systems
- Send automatic notifications via email, SMS, and pagers
- Participate in the Internet of Things through open APIs and custom adapters

General Description

Desigo CC™ offers full integration of building automation, fire safety, power management, electrical applications, access control, and video systems, while also supporting open standards such as BACnet, OPC, Modbus, SNMP, and more. Desigo CC™ also provides customizable and market-specific solutions. Options are available for dedicated, browser-based, and Windows desktop app clients using the same user interface. Additionally, web services interfaces provide increased flexibility for data sharing, operation, and user interface extensions such as mobile applications for tablets and smartphones.

System Architecture

Desigo CC™ is a client-server system designed to augment existing building infrastructure and integrate with standard IT hardware, software, and networks. The open, adaptable architecture supports the most common Windows-based IT infrastructures. In addition, Desigo CC™ allows full server functionality in virtual IT environments and advanced networks. A Desigo CC™ installation can be configured as a single server or as multiple servers in a distributed configuration.
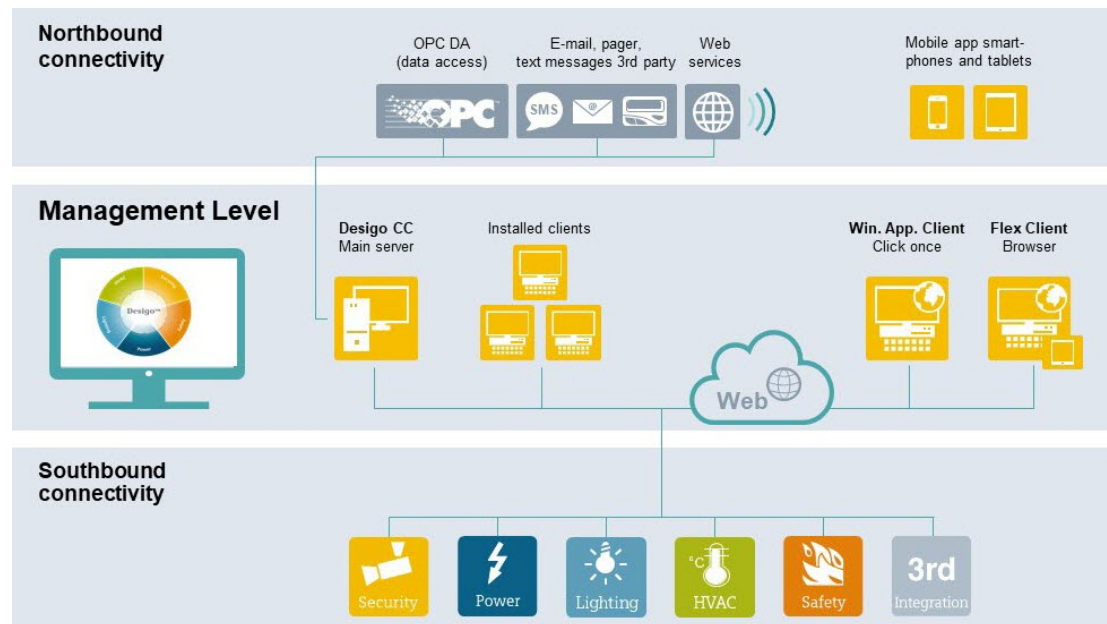
System Capabilities

- Fully scalable and secure distributed client/server architecture with multi-language support
- Web and remote access from mobile clients
- Open-data libraries designed for extensions and integrations
- Southbound connectivity through BACnet, BACnet/SC, OPC DA and UA, Modbus, HTTP(S), SNMP, M-bus, KNX, IEC61850, HTML5, Haystack, Power, Power Quality, S7 and S7 Plus standards, and SDK to develop subsystem extensions
- Powerful features such as advanced event management, Mobile App, notifications, scheduler/reaction processor, reports, log viewer, long-term storage, user management
- Support for 150,000 objects in a single system or up to 1,500,000 objects in distributed systems
- Consistent user interface concept across all applications, with graphic-oriented operation workflows
- Online engineering with wizards, including data discovery, CAD import, and automatic positioning of graphic symbols

- Support for Siemens and third-party building automation, fire safety, energy, security, power management units and other building devices
- Northbound connectivity through BACnet Server, OPC DA Server, SNMP, and RESTful Web Services interfaces
- Support of authentication via most common OIDC providers (Google, Microsoft, Amazon)
- Consolidated Ecosystem program and network to share and expand subsystem extensions, applications, utilities, and tools

Certifications and Approvals

Desigo CC™ has been tested against a wide range of domain- and country-specific norms and standards, including:

- BACnet Revision 1.15, certified by BACnet Testing Laboratory as BACnet Advanced Workstation Software (BTL B-AWS)
- AMEV recommendation BACnet 2017 compliant with Management Operation Unit (MOU-B) profileIT security compliant with the ISA-99/IEC 62443 Security Level: SL2
- OPC DA V2.05a and V3.0 Server, certified by the OPC Foundation certification program
- Support of pharmaceutical industry regulatory requirements, such as US FDA 21CFR Part 11, GMP Annex 11 or similar
- BACnet Revision 1.15, certified by BACnet Testing Laboratory as BACnet Advanced Workstation Software (BTL B-AWS)
- AMEV recommendation BACnet 2017 compliant with Management Operation Unit (MOU-B) profileIT security compliant with the ISA-99/IEC 62443 Security Level: SL2
- OPC DA V2.05a and V3.0 Server, certified by the OPC Foundation certification program
- Support of pharmaceutical industry regulatory requirements, such as US FDA 21CFR Part 11, GMP Annex 11 or similar
- UL listed to UL-864 10th edition Standard for Control Units and Accessories for command and control when installed on a UL-864 approved computer
- ULC listed to ULC-S527-11 3rd edition for command and control when installed on a ULC-S527 approved computer
- UL listed to UL-2572 for Mass Notification (for monitoring only when installed on a UL-2572 approved computer)
- ULC listed to ULC-S576 for Mass Notification (for monitoring only when installed on a UL-2572 approved computer)
- UL listed to UL-294 7th edition Standard for Safety–Access Control System Units

Technical Data

Operating System Compatibility

The Server and Installed Clients run on the following Microsoft operating systems and editions:

- Microsoft® Windows 10 64-bit (Professional and Enterprise)
- Microsoft® Windows Server 2012 R2 64-bit
- Microsoft® Windows Server 2016 64-bit
- Microsoft® Windows Server 2019 64-bit

Web Clients and Windows App Clients run on following Microsoft operating systems and editions:

- Microsoft® Windows 10 64-bit (Professional and Enterprise)

Server Hardware Requirements (minimum recommendation)

Physical Machines

- Hard disk: 1 x 256GB SSD (client); 1 x 1024GB SSD (server)
- RAM: 8GB (client); 16GB (small or medium-sized server); 32GB (large server)
- Processor: Core i5 or equivalent ≥3.0 GHz, 2 cores (client); Core i7 or equivalent ≥3.2 GHz, 4 cores per running system (server)
- UL/ULC-listed hardware: required for UL/ULC applications

Virtual Machines

- Hard disk: 1 x 256GB SSD (client); 1 x 1024GB SSD (server)
- RAM: 8GB (client); 16GB (small or medium-sized server); 32GB (large server)
- Processor: 2 vCPUs assigned to the VM ≥3.0 GHz (client); 4 vCPUs assigned to the VM ≥3.2 GHz (server)

Microsoft SQL Server Compatibility

Microsoft SQL Server 2019 Express is free and included with the installation media. Additional supported SQL version and editions are:

- Microsoft® SQL Server 2016 (Express, Standard, and Enterprise)
- Microsoft® SQL Server 2017 (Express, Standard, and Enterprise)
- Microsoft® SQL Server 2019 (Express, Standard, and Enterprise)

Ordering Information

For ordering information related to Desigo CC™, please visit our online tool HIT.

For ordering information related to Desigo CC™, please see the following:

Model Number	Part Number (SSN)	Material Description
Feature Sets: One feature-set license is required for each server. Sites with multiple servers require multiple feature-set licenses.		
CCA-STD-FSET	P55802-Y114-A100	Standard Feature Set
CCA-STD-FSET-PSM	P55802-Y114-D100	
CCA-STD-FSET-SSM	P55802-Y114-E100	
CCA-CMPT-BA	P55802-Y113-A100	Building Automation Compact Feature Set
CCA-CMPT-BA-PSM	P55802-Y113-D100	
CCA-CMPT-BA-SSM	P55802-Y113-E100	
CCA-CMPT-DMS	P55802-Y110-A100	Fire / Danger Management Compact Feature Set
CCA-CMPT-DMS-PSM	P55802-Y110-D100	
CCA-CMPT-DMS-SSM	P55802-Y110-E100	
CCA-CMPT-VM	P55802-Y121-A100	Validation Compact Feature Set
CCA-CMPT-ELEC	P55802-Y108-A100	Electrical System Feature Set
Feature Options for Standard Feature Set		
CCA-P2-DRIVE	P55802-Y133-A300	P2 Driver Option
CCA-P2-DRIVE-PSM	P55802-Y133-D300	
CCA-P2-DRIVE-SSM	P55802-Y133-E300	
Feature Options for Building Automation Compact Feature Set		
CCA-OP-GRAPH-ED	P55802-Y127-A300	Graphics Editor Option
CCA-P2-DRIVE	P55802-Y133-A300	P2 Driver Option
CCA-CMPT-BA-U	P55802-Y113-A500	Upsell license to convert BA Compact Feature Set into a Standard Feature Set
Feature Options for Fire / Danger Management Compact Feature Set		
CCA-OP-GRAPH-ED	P55802-Y127-A300	Graphics Editor Option
CCA-CMPT-DMS-U	P55802-Y110-A500	Upsell license to convert DMS Compact Feature Set into a Standard Feature Set

Feature Options for Validation Compact Feature Set		
CCA-OP-GRAPH-ED	P55802-Y127-A300	Graphics Editor Option
CCA-CMPT-VM-U	P55802-Y121-A500	Upsell license to convert Validated Compact Feature Set into a Standard Feature Set
CCA-CMPT-ELEC-U	P55802-Y108-A500	Upsell license to convert Electrical Compact Feature Set into a Standard Feature Set
Clients (Installed, Web, Windows App)		
CCA-1-CL	P55802-Y119-A200	License for 1 additional Client license
CCA-1-CL-PSM	P55802-Y119-D200	
CCA-1-CL-SSM	P55802-Y119-E200	
CCA-MAX-CL	P55802-Y120-A200	License for unlimited clients
CCA-MAX-CL-PSM	P55802-Y120-D200	
CCA-MAX-CL-SSM	P55802-Y120-E200	
Building Automation Points		
CCA-100-BA	P55802-Y157-A412	Add 100 building automation data points
CCA-100-BA-PSM	P55802-Y157-D412	
CCA-100-BA-SSM	P55802-Y157-E412	
CCA-500-BA	P55802-Y157-A452	Add 500 building automation data points
CCA-500-BA-PSM	P55802-Y157-D452	
CCA-500-BA-SSM	P55802-Y157-E452	
CCA-5000-BA	P55802-Y157-A453	Add 5,000 building automation data points
CCA-5000-BA-PSM	P55802-Y157-D453	
CCA-5000-BA-SSM	P55802-Y157-E453	
CCA-10000-BA	P55802-Y157-A414	Add 10,000 building automation data points
CCA-10000-BA-PSM	P55802-Y157-D414	
CCA-10000-BA-SSM	P55802-Y157-E414	
CCA-30000-BA	P55802-Y157-A434	Add 30,000 building automation data points
CCA-30000-BA-PSM	P55802-Y157-D434	
CCA-30000-BA-SSM	P55802-Y157-E434	
CCA-100000-BA	P55802-Y157-A415	Add 100,000 building automation data points
CCA-100000-BA-PSM	P55802-Y157-D415	
CCA-100000-BA-SSM	P55802-Y157-E415	
Fire Points		
CCA-100-FIRE	P55802-Y158-A412	Add 100 fire detection data points
CCA-100-FIRE-PSM	P55802-Y158-D412	
CCA-100-FIRE-SSM	P55802-Y158-E412	
CCA-500-FIRE	P55802-Y158-A452	Add 500 fire detection data points
CCA-500-FIRE-PSM	P55802-Y158-D452	
CCA-500-FIRE-SSM	P55802-Y158-E452	
CCA-5000-FIRE	P55802-Y158-A453	Add 5,000 fire detection data points
CCA-5000-FIRE-PSM	P55802-Y158-D453	
CCA-5000-FIRE-SSM	P55802-Y158-E453	
CCA-10000-FIRE	P55802-Y158-A414	Add 10,000 fire detection data points
CCA-10000-FIRE-PSM	P55802-Y158-D414	

CCA-10000-FIRE-SSM	P55802-Y158-E414	
Security (1 data point = 1 physical detector (PIR, magnetic contact) or 1 digital/physical input or 1 digital/physical output)		
CCA-6-SEC	P55802-Y102-A460	Add 6 security data points
CCA-6-SEC-PSM	P55802-Y102-D460	
CCA-6-SEC-SSM	P55802-Y102-E460	
CCA-100-SEC	P55802-Y102-A412	Add 100 security data points
CCA-100-SEC-PSM	P55802-Y102-D412	
CCA-100-SEC-SSM	P55802-Y102-E412	
CCA-500-SEC	P55802-Y102-A452	Add 500 security data points
CCA-500-SEC-PSM	P55802-Y102-D452	
CCA-500-SEC-SSM	P55802-Y102-E452	
Video Monitors and Cameras		
CCA-V-PLUS	P55802-Y159-A300	Video option Plus for embedded VMS
CCA-V-PLUS-PSM	P55802-Y159-D300	
CCA-V-PLUS-SSM	P55802-Y159-E300	
CCA-V-16MON	P55802-Y160-A401	Add 16 monitors
CCA-V-16MON-PSM	P55802-Y160-D401	
CCA-V-16MON-SSM	P55802-Y160-E401	
CCA-V-128MON	P55802-Y160-A412	Add 128 monitors
CCA-V-128MON-PSM	P55802-Y160-D412	
CCA-V-128MON-SSM	P55802-Y160-E412	
CCA-V-16EXTC	P55802-Y161-A401	Add 16 external cameras
CCA-V-16EXTC-PSM	P55802-Y161-D401	
CCA-V-16EXTC-SSM	P55802-Y161-E401	
CCA-V-128EXTC	P55802-Y161-A412	Add 128 external cameras
CCA-V-128EXTC-PSM	P55802-Y161-D412	
CCA-V-128EXTC-SSM	P55802-Y161-E412	
CCA-V-16EMBC	P55802-Y162-A401	Add 16 embedded cameras
CCA-V-16EMBC-PSM	P55802-Y162-D401	
CCA-V-16EMBC-SSM	P55802-Y162-E401	
Access Control Doors		
CCA-AC-16EXTD	P55802-Y164-A401	Add 16 doors
CCA-AC-16EXTD-PSM	P55802-Y164-D401	
CCA-AC-16EXTD-SSM	P55802-Y164-E401	
CCA-AC-128EXTD	P55802-Y164-A412	Add 128 doors
CCA-AC-128EXTD-PSM	P55802-Y164-D412	
CCA-AC-128EXTD-SSM	P55802-Y164-E412	
SCADA (1 data point = 1 OPC client tag or Modbus object's property or 1 SNMP device)		
CCA-100-SCADA	P55802-Y124-A412	Add 100 SCADA data points
CCA-100-SCADA-PSM	P55802-Y124-D412	
CCA-100-SCADA-SSM	P55802-Y124-E412	
CCA-500-SCADA	P55802-Y124-A452	Add 500 SCADA data points
CCA-500-SCADA-PSM	P55802-Y124-D452	
CCA-500-SCADA-SSM	P55802-Y124-E452	

CCA-5000-SCADA	P55802-Y124-A453	Add 5,000 SCADA data points
CCA-5000-SCADA-PSM	P55802-Y124-D453	
CCA-5000-SCADA-SSM	P55802-Y124-E453	
Power & Energy Management		
CCA-10-METER	P55802-Y152-A411	Add 10 managed meters
CCA-10-METER-PSM	P55802-Y152-D411	
CCA-10-METER-SSM	P55802-Y152-E411	
CCA-100-METER	P55802-Y152-A412	Add 100 managed meters
CCA-100-METER-PSM	P55802-Y152-D412	
CCA-100-METER-SSM	P55802-Y152-E412	
CCA-500-ELEC	P55802-Y156-A452	Add 500 electrical KNX points
CCA-500-ELEC-PSM	P55802-Y156-D452	
CCA-500-ELEC-SSM	P55802-Y156-E452	
CCA-5000-ELEC	P55802-Y156-A453	Add 5,000 electrical KNX points
CCA-5000-ELEC-PSM	P55802-Y156-D453	
CCA-5000-ELEC-SSM	P55802-Y156-E453	
CCA-30000-ELEC	P55802-Y156-A434	Add 30,000 electrical KNX points
CCA-30000-ELEC-PSM	P55802-Y156-D434	
CCA-30000-ELEC-SSM	P55802-Y156-E434	
CCA-100000-ELEC	P55802-Y156-A415	Add 100,000 electrical KNX points
CCA-100000-ELEC-PSM	P55802-Y156-D415	
CCA-100000-ELEC-SSM	P55802-Y156-E415	
Validation		
CCA-100-VALID	P55802-Y154-A412	Add 100 validated objects
CCA-100-VALID-PSM	P55802-Y154-D412	
CCA-100-VALID-SSM	P55802-Y154-E412	
CCA-500-VAL	P55802-Y154-A452	Add 500 validated objects
CCA-500-VAL-PSM	P55802-Y154-D452	
CCA-500-VAL-SSM	P55802-Y154-E452	
CCA-5000-VAL	P55802-Y154-A453	Add 5,000 validated objects
CCA-5000-VAL-PSM	P55802-Y154-D453	
CCA-5000-VAL-SSM	P55802-Y154-E453	
CCA-10000-VAL	P55802-Y154-A414	Add 10,000 validated objects
CCA-10000-VAL-PSM	P55802-Y154-D414	
CCA-10000-VAL-SSM	P55802-Y154-E414	
CCA-30000-VAL	P55802-Y154-A434	Add 30,000 validated objects
CCA-30000-VAL-PSM	P55802-Y154-D434	
CCA-30000-VAL-SSM	P55802-Y154-E434	
CCA-100000-VAL	P55802-Y154-A415	Add 100,000 validated objects
CCA-100000-VAL-PSM	P55802-Y154-D415	
CCA-100000-VAL-SSM	P55802-Y154-E415	
Connectivity		
CCA-IEC61850	P55802-Y136-A300	IEC 61850 driver
CCA-IEC61850-PSM	P55802-Y136-D300	
CCA-IEC61850-SSM	P55802-Y136-E300	

CCA-S7-CONN	P55802-Y135-A300	Simatic S7 64 connections
CCA-S7-CONN-PSM	P55802-Y135-D300	
CCA-S7-CONN-SSM	P55802-Y135-E300	
CCA-S7-PLUS	P55802-Y137-A300	Simatic S7 plus driver
CCA-S7-PLUS-PSM	P55802-Y137-D300	
CCA-S7-PLUS-SSM	P55802-Y137-E300	
Long term storage and archiving		
CCA-1-ARCHGRP	P55802-Y155-A410	Add 1 custom archive group
CCA-1-ARCHGRP-PSM	P55802-Y155-D410	
CCA-1-ARCHGRP-SSM	P55802-Y155-E410	
Remote Notification Options		
CCA-RENO-PLUS	P54593-Y195-A300	Reno Plus
CCA-RENO-PLUS-PSM	P54593-Y195-D300	
CCA-RENO-PLUS-SSM	P54593-Y195-E300	
CCA-M-ADD-500R	P54593-Y192-A452	Add 500 Recipients
CCA-M-ADD-500R-PSM	P54593-Y192-D452	
CCA-M-ADD-500R-SSM	P54593-Y192-E452	
CCA-M-ADD-20KR	P54593-Y193-A424	Add 20,000 Recipients
CCA-M-ADD-20KR-PSM	P54593-Y193-D424	
CCA-M-ADD-20KR-SSM	P54593-Y193-E424	
Custom Solutions		
CCA-1-INT-TK	P55802-Y180-A410	Integration Token for Custom Solutions
CCA-1-INT-TK-PSM	P55802-Y180-D410	
CCA-1-INT-TK-SSM	P55802-Y180-E410	
Accessories		
CMD.04	S55802-Y148	USB License Hardware Key (Dongle)

The following options are available only as extensions for use with the Extended Feature Set.

Model Number	Part Number (SSN)	Material Description
CCA-OP-OPC	P55802-Y100-A300	OPC Server Option
CCA-OP-AS-TR	P55802-Y103-A300	Assisted Treatment Option
CCA-OP-RE-PR	P55802-Y104-A300	Reaction Processor
CCA-OP-RENO	P55802-Y126-A300	Notification Option
CCA-OP-LOG-V	P55802-Y132-A300	Log Viewer Option
CCA-DATAMATE	P55802-Y134-A300	Apogee Datamate Option
CCA-OP-WS-LIVE	P55802-Y163-A300	Web Services Live Data Option
CCA-OP-WS-HIST	P55802-Y164-A300	Web Services Historical Data Option
CCA-OP-WS-CMD	P55802-Y166-A300	Web Services Command Option
CCA-OP-WS-ADD	P55802-Y167-A300	Web Services Add Connections Option
CCA-P2-DRIVE	P55802-Y133-A300	P2 Driver Option

The following options are available for UL/ULC-Listed Hardware for Fire Safety Applications.

Model Number	Part Number (SSN)	Material Description

Desigo CC Packages – Software Licenses must be ordered separately (see above)		
UHW-CATA-PKG-SM	S54465-C82-A1	● UL/ULC HW Category A Computer (Model UHW-CATA-01) ● 22" LCD Monitor (Model UHW-0000-22L-L) ● SNC Card for XNET connection (Model SNC)
UHW-CATB-PKG-SM	S54465-C82-A2	● UL/ULC HW Category B Computer (Model UHW-CATB-01) ● 22" LCD Monitor (Model UHW-0000-22L-L) ● SNC Card for XNET connection (Model SNC)
UHW-CATB-PKG-LM	S54465-C83-A1	● UL/ULC HW Category B Computer (Model UHW-CATB-01) ● 42" LCD Monitor (Model UHW-0000-42L-L) ● SNC Card for XNET connection (Model SNC)
Computers Only – Software Licenses must be ordered separately (See above)		
UHW-CATA-01	S54465-C73-A1	● UL/ULC HW Category A Computer (Intel i7, 16 GB RAM) with Windows 10 ● SNC Card for XNET connection ● No Monitor
UHW-CATB-01	S54465-C73-A2	● UL/ULC HW Category B Computer (Intel i7, 32 GB RAM) with Windows 10 ● SNC Card for XNET connection ● No Monitor
UHW-CATC-01	S54465-C74-A1	● UL/ULC HW Category C Computer (Intel Xeon, 32 GB RAM) with Windows Server 2019 ● SNC Card for XNET connection ● No Monitor
UHW-CATD-01	S54465-C74-A2	● UL/ULC HW Category D Computer (Intel Dual Xeon, 64 GB RAM) with Windows Server 2019 ● SNC Card for XNET connection ● No Monitor
Monitors Only		
UHW-0000-22L-L	S54465-C8-A2	● UL/ULC Listed 22" LCD Monitor
UHW-0000-42L-L	S54465-C9-A2	● UL/ULC Listed 42" LCD Monitor
XNET Interfaces		
SNC	S54465-N1-A1	XNET Interface Card for Modular, FireFinder XLS, and MXL
MOSA	S54465-C62-A1	XNET Monitoring-Only Solution Assembly (MOSA)
Network Switches		
X204-2	500-650537	SCALANCE X-204-2 Multi-mode network switch; UL Listed, 4 Ethernet ports, 2 sets of multi-mode fiber ports

X204-2LD	S54430-A6-A1	SCALANCE X-204-2LD Single-mode network switch; UL Listed, 4 Ethernet ports, 2 sets of single-mode fiber ports
FN2012-A1	S54400-B152-A1	Modular Ethernet Switch; UL/ULC Listed; Requires two Model VN2002-A1 or VN2003-A1
VN2002-A1	S54400-A43-A1	Multi-Mode Ethernet Module; UL/ULC Listed
VN2003-A1	S54400-A44-A1	Single-Mode Ethernet Module; UL/ULC Listed

Resources

For the latest information about Building Products and Siemens Smart Infrastructure, visit our Building Products site.

For other datasheets, see the following:

- Desigo CC™
- Cerberus® DMS
- Desigo CC™ Compact BA
- Desigo CC™ Compact DMS
- Desigo CC™ Compact Validated Monitoring
- Desigo CC™ Compact for Electrical applications
- Desigo CC™ Connect

For more information, refer to your local sales organization.

Cybersecurity Disclaimer

Siemens' portfolio undergoes continuous development to make it more secure. Siemens strongly recommends that updates are applied as soon as they are available and that the latest versions are used. Use of versions that are no longer supported, and failure to apply the latest updates may increase your exposure to cyber threats. Siemens strongly recommends compliance with security advisories on the latest security threats, patches, and other related measures—published, among others, under https://www.siemens.com/cert/en/cert-security-advisories.htm.