VC-4-PC-3

Computer with Crestron Virtual Control Server Software

- *Offers server-based control system software preinstalled on a micro computer*
- *Ideal for small to medium-sized deployments*
- *Employs a powerful Dell® micro computer*
- *Ships with Crestron Virtual Control software (VC-4) preinstalled and fully configured*
- *Provides a scalable virtual control platform*
- *Streamlines deployment, maintenance, and management*
- *Supports XiO Cloud® cloud-based monitoring*
- *Supports .AV Framework™ management solution*
- *Supports C#, SIMPL, and SIMPL# Pro programming*
- *Integrates directly with IP-controllable devices over the network*
- *Integrates with serial, IR, CEC, and other controllable devices via decentralized control ports on DM®, DM NVX®, and other Crestron® interfaces*
- *Native BACnet network/IP support*
- *Employs enterprise-grade security to ensure maximum reliability and privacy*
- *Includes three room licenses with purchase*
- *Online and offline licensing options available*
- *Includes external power adapter*

The Crestron® VC-4-PC-3 is a powerful Dell® micro computer that comes with Crestron Virtual Control software (VC-4) preinstalled and fully configured. The VC-4-PC-3 is secured and ready for operation out of the box and only needs power and an Ethernet connection to function. Most standard Crestron Virtual Control functions and features are readily available without requiring any configuration or Linux® OS knowledge. The VC-4-PC-3 includes three room licenses with purchase and is perfect for small to medium-sized deployments.[1,2]

> **NOTE:** When running in a virtualized environment, Crestron Virtual Control can leverage the hypervisor's fault tolerance and high-availability features. The VC-4-PC-3 runs as a standalone computer and, therefore, cannot leverage these features. If these features are desired, Crestron Virtual Control software must be installed in an existing virtualized environment that supports them.

Crestron Virtual Control is a control platform for enterprise applications that can be used in place of hardware-based Crestron control systems. The platform runs programs to control multiple rooms over the network from a single, centralized location. Cloud-based monitoring is available using the XiO Cloud® service. Crestron Virtual Control also provides native support for .AV Framework™ software, which is a web-based management solution that is used to deploy scalable Crestron enterprise room solutions without requiring any programming.

Crestron Virtual Control can be integrated with a variety of devices, including audio, video, lighting, motorized shades, thermostats, door locks, sensors, and security systems. Connected devices can be controlled directly via Ethernet, and those that require a serial, IR, or other hardware interface can be integrated via decentralized control ports on a DM NVX® encoder/decoder, DM® transmitter or receiver, CEN-CI3-1-POE interface, or the CEN-IO wired and wireless series of I/O modules. Cresnet® network devices can be integrated via a DIN-CENCN-2-POE bridge, and wireless Crestron devices can also be integrated via an infiNET EX® wireless gateway. Native support for the BACnet communication protocol provides a direct interface to third-party building management systems over Ethernet, simplifying integration with HVAC, security, and other systems.[3]

Crestron Virtual Control streamlines deployment and maintenance by allowing a single program to be deployed across multiple rooms. Support for C#, SIMPL, and SIMPL#Pro programming languages gives programmers design flexibility and enables programs to be shared with hardware-based control systems.[4] Crestron Virtual Control also employs enterprise-grade security to ensure maximum reliability and privacy.

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Room Licensing

The VC-4-PC-3 includes three room licenses with purchase.[2] Additional rooms can be added to the VC-4-PC-3 by purchasing the desired number of room licenses (VC-4-ROOM).

The VC-4-PC-3 provides two licensing options: online licensing via the XiO Cloud® service, or offline licensing via the USB-OFFLINE dongle.

- For online licensing via the XiO Cloud service, the VC-4-PC-3 requires access to XiO Cloud to validate its licenses. An active XiO Cloud account is required, subject to the terms of the Crestron Cloudware License.[5] However, a paid XiO Cloud subscription is not required to manage licenses for the VC-4-PC-3. Use the XiO Cloud account registration form to associate VC-4-ROOM licenses with an XiO Cloud account.
- For offline licensing via the USB-OFFLINE dongle, the dongle must be connected to the VC-4-PC-3 to validate its licenses. All room licenses must be ordered and the offline licensing form must be completed prior to validating licenses via the USB-OFFLINE dongle. For more information, refer to the Crestron Virtual Control Product Manual.

Specifications

Computer

Model	Dell® OptiPlex® 7080 Micro Desktop computer
Processor	Intel Core® i5-10500T CPU @ 2.30GHz
RAM	8 GB DDR4 2666MT/s
Storage	256 GB SSD
Graphics	Intel® UHD Graphics 630
Network	Intel I219-LM 100/1000 Mbps Ethernet
Operating System	AlmaLinux OS® 8.6 software

Communications

Ethernet	100/1000 Mbps
USB	USB 3.2 host ports for mouse and keyboard (used for optional configuration through command line interface)
BACnet Network/IP	Supports up to 10000 BACnet objects[3]

Buttons and Indicators

Power	(1) Push button with LED backlight; For power on/off and reset
LAN	(2) LEDs on LAN port; Indicate Ethernet link status and activity

Connectors

Audio (Front)	(1) 3.5 mm universal audio connector (not used)
Line-Out (Front)	(1) 3.5 mm line-out audio connector (not used)
USB-C (Front)	(1) USB Type-C® 3.2 (Gen 2) connector, female (not used)
SSUSB 3.2 Gen 2 (Front)	(1) USB Type-A 3.2 (Gen 2) connector, with PowerShare, female; Connects to a keyboard or mouse for optional command line configuration
Antenna	(2) Wireless antenna slots; Includes one attached wireless antenna (not used)
HDMI	(1) HDMI® connector, female; Connects to a monitor for optional command line configuration
LAN	(1) 8-pin RJ-45 connector, female; 100BASE-TX/1000BASE-T Ethernet port

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SSUSB 3.2 Gen 1	(2) USB Type-A 3.2 (Gen 1) connectors, female; Provides one port with Smart Power; Connects to a keyboard or mouse for optional command line configuration
SSUSB 3.2 Gen 2	(2) USB Type-A 3.2 (Gen 2) connectors, female; Connects to a keyboard or mouse for optional command line configuration
Kensington Lock	(1) Slot for optional Kensington® lock
DisplayPort	(2) DisplayPort™ 1.4 connectors, female; Connects to a monitor for optional command line configuration
19.5VDC	(1) DC power connector; 19.5VDC power input; For included power adapter

Power

Power Adapter (Included)	Input: 100–240VAC, 50/60 Hz; Output: 130 W @ 19.5V

Environmental

Operating Temperature	50 to 95°F (10 to 35°C)
Storage Temperature	-40 to 149°F (-40 to 65°C)
Heat Dissipation	42.9 BTU/hr (short idle)

Construction

Enclosure	Metal, plastic
Mounting	Freestanding, optional VESA® mount and Kensington® lock capabilities

Dimensions

Height	1.40 in. (36 mm)
Width	7.20 in. (183 mm)
Depth	7.00 in. (178 mm)

Weight

2.87 lb (1.30 kg)

To search for product certificates, refer to support.crestron.com/app/certificates.

Model

VC-4-PC-3
Computer with Crestron Virtual Control Server Software

Included Accessories

VC-4-ROOM
Crestron Virtual Control Server Software - Single-Room License
(Qty. 3 included)

Available Accessories

For a list of available accessories, visit the VC-4-PC-3 product page.

Notes:

1. For optimal performance, Crestron recommends running no more than 25 rooms and/or 250 devices on the VC-4-PC-3.
2. The three included room licenses must be requested and then validated within the XiO Cloud® service or via the USB-OFFLINE dongle. No rooms will run on the VC-4-PC-3 until the room licenses are requested and applied. Any additional room licenses (VC-4-ROOM) must be purchased separately.
3. BACnet network/IP support is required. The VC-4-PC-3 supports up to 100 BACnet objects by default. For systems with more than 100 objects, at least one SW-VC4-BN-1000 license must be purchased. For systems with more than 1000 objects, multiple SW-VC4-BN-1000 licenses must be purchased based on the total required objects. Licenses are validated within the XiO Cloud service or via the USB-OFFLINE dongle. The VC-4-PC-3 supports a maximum of 10000 BACnet objects when dedicated for BACnet use only. Actual capabilities are contingent upon the overall program size and complexity.
4. Crestron Virtual Control does not support programs that were created using D3 Pro software.
5. The XiO Cloud® service is licensed under Crestron's Cloudware License Agreement, available at www.crestron.com/Legal/software-products-on-premises-and-cloudware/cloudware-license-agreement.

This product may be purchased from select authorized Crestron dealers and distributors. To find a dealer or distributor, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/How-To-Buy/Find-a-Representative or contact us for additional information by visiting www.crestron.com/contact/our-locations for your local contact.

The original language version of this document is U.S. English.
All other languages are a translation of the original document.

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This product is covered under the Creston standard limited warranty, which can be found at www.crestron.com/warranty.

The specific patents that cover Crestron products are listed online at www.crestron.com/legal/patents.

Certain Crestron products contain open source software. For specific information, please visit www.crestron.com/opensource.

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