

# VC-4-SERVER-25

## Rack Server with Crestron Virtual Control Software



- Offers server-based control system software preinstalled on a rack server
- Ideal for medium to large-sized deployments
- Employs a powerful Dell® rack server
- Ships with Crestron Virtual Control software (VC-4) preinstalled and fully configured
- Provides a scalable virtual control platform
- Streamlines deployment, maintenance, and management
- Supports monitoring and configuration via the XiO Cloud® service
- Supports .AV Framework™ management solution
- Supports C#, SIMPL, and SIMPL# Pro programming
- Supports .NET 6 and .NET 8 web frameworks
- 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
- Integrates with the XiO Cloud Program Connector
- Native BACnet network/IP support
- Dual solid state drives (SSD) and redundant power supplies provide increased reliability
- Employs enterprise-grade security to ensure maximum reliability and privacy
- Includes 25 room licenses with purchase
- Online and offline licensing options available

The Crestron® [VC-4-SERVER-25](#) is a powerful Dell® rack server that comes with Crestron Virtual Control software (VC-4) preinstalled and fully configured. The VC-4-SERVER-25 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-SERVER-25 also provides dual solid state drives (SSD) and redundant power supplies for increased reliability. The VC-4-SERVER-25 includes 25 room licenses with purchase and is perfect for medium to large-sized deployments.<sup>1</sup>

**NOTE:** When running in a virtualized environment, Crestron Virtual Control can leverage the hypervisor's fault tolerance and high-availability features. The VC-4-SERVER-25 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.<sup>2</sup>

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.<sup>3</sup> Crestron Virtual Control also employs enterprise-grade security to ensure maximum reliability and privacy.

### Room Licensing

The VC-4-SERVER-25 includes 25 room licenses with purchase.<sup>1</sup> Additional rooms can be added to the VC-4-SERVER-25 by purchasing the desired number of room licenses ([VC-4-ROOM](#)).

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The VC-4-SERVER-25 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, an active XiO Cloud account is required to validate VC-4-SERVER-25 licenses. A free XiO Cloud subscription (SW-XIOC) or paid XiO Cloud Premium subscription (SW-XIOC-PREMIUM-1YR-1-99, SW-XIOC-PREMIUM-1YR-100-499, and SW-XIOC-PREMIUM-1YR-500+) is not required to manage VC-4 server licenses. However, each VC-4-SERVER-25 license claimed into an XiO Cloud account with an XiO Cloud Premium subscription will be included in the device count total. Visit the [Licensing and Registration Hub](#) to associate VC-4-SERVER-25 licenses with an XiO Cloud account.
- For offline licensing via the USB-OFFLINE dongle, the dongle must be connected to the VC-4-SERVER-25 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](#).

### NOTES:

- Any existing Crestron Virtual Control licenses within the XiO Cloud service cannot be converted to offline licenses. If switching your Crestron Virtual Control installation from online to offline licensing mode, new room and/or BACnet licenses must be purchased.
- Online and Offline licenses cannot be mixed on the same VC-4 machine.

## Specifications

### Computer

<b>Model</b>	Dell® PowerEdge® R360 Rack Server
<b>Processor</b>	Intel® Xeon® E2486G CPU @ 3.50GHz, 8C/16T
<b>RAM</b>	128 GB DDR5, 4x32 GB UDIMM, 5600MT/s ECC
<b>Storage</b>	960 GB SSD, RAID 1 Configured
<b>Network</b>	Broadcom® 57414 100/2500 Mbps Ethernet
<b>Operating System</b>	AlmaLinux OS® 9.2 software

### Communications

<b>Ethernet</b>	100/1000 Mbps
<b>USB</b>	USB 3.2 and 2.0 host ports for mouse and keyboard (used for optional configuration through command line interface)
<b>BACnet Network/IP</b>	Supports up to 10000 BACnet objects <sup>3</sup>

### Buttons and Indicators

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

### Connectors

<b>iDRAC Direct (Front)</b>	(1) USB Micro-AB connector, female
<b>USB 2.0 (Front)</b>	(1) USB Type-A 2.0 connector, female; Connects to a keyboard or mouse for optional command line configuration
<b>VGA</b>	(1) DB-15 VGA connector, female; Connects to a monitor for optional command line configuration
<b>LAN</b>	(1) 8-pin RJ-45 connector, female; 100BASE-TX/1000BASE-T Ethernet port
<b>SSUSB 3.0</b>	(1) USB Type-A 3.0 (Gen 1) connector, female; Connects to a keyboard or mouse for optional command line configuration
<b>USB 2.0</b>	(1) USB Type-A 2.0 connector, female; Connects to a keyboard or mouse for optional command line configuration
<b>IEC Connector</b>	(1) VDC power connector; 110/220 VDC Dual Voltage power input
<b>SFP+</b>	(2) SFP+ ports; 1000BASE-X/10GBASE-X Ethernet ports

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### Power

**Main Power** Input: 100–240VAC, 50/60 Hz;  
Output: 600 W @ 240V

### Environmental

**Operating Temperature** 50 to 95°F (10 to 35°C)  
**Storage Temperature** -40 to 149°F (-40 to 65°C)  
**Heat Dissipation** 2250 BTU/hr (maximum)

### Construction

**Enclosure** Metal, plastic  
**Mounting** 1 RU 19 in. rack-mountable

### Dimensions

**Height** 1.69 in. (43 mm)  
**Width** 18.98 in. (482 mm)  
**Depth** 23.58 in. (599 mm)

### Weight

23.96 lb (13.14 kg)

To search for product certificates, refer to [support.crestron.com/app/certificates](http://support.crestron.com/app/certificates).

### Model

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### Included Accessories

#### VC-4-ROOM

Crestron Virtual Control Server Software - Single-Room License  
(Qty. 25 included)

### Available Accessories

For a list of available accessories, visit the [VC-4-SERVER-25](#) product page.

#### Notes:

1. The 25 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-SERVER-25 until the room licenses are requested and applied. Any additional room licenses ([VC-4-ROOM](#)) must be purchased separately.

2. BACnet network/IP support is required. The VC-4-SERVER-25 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-SERVER-25 supports a maximum of 10000 BACnet objects when dedicated for BACnet use only. Actual capabilities are contingent upon the overall program size and complexity.
3. Crestron Virtual Control does not support programs that were created using D3 Pro software.

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](http://www.crestron.com/How-To-Buy/Find-a-Representative) or contact us for additional information by visiting [www.crestron.com/contact/our-locations](http://www.crestron.com/contact/our-locations) for your local contact.

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