SECTION 27 41 16

INTEGRATED AUDIO-VIDEO SYSTEMS AND EQUIPMENT

GUIDE SPECIFICATION

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Specifier: Please see PART 4 for a listing of products specified in this Guide Specification.

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# GENERAL

NOT USED in this Guide Specification. Specifier shall Specify PART 1 administrative and procedural requirements as needed.

# PRODUCTS

## PC-Based Control System

Specifier Note:

*The Crestron PC4-R is a PC-based control processor that is embedded with the Crestron Home® operating system. It is designed exclusively to function as the core of a Crestron Home system. The Crestron PC4-R is secured and ready for operation out of the box and only needs power and an Ethernet connection to function.*

### Basis of Design

#### Crestron PC4-R

### Device Definition

#### PC-based control processor embedded with proprietary home / MDU automation operating system with the following characteristics:

##### Configuration through proprietary application for Apple® iPad® device, Mac®, or Windows® PC

##### Control of audio, video, lighting, shading, HVAC, and security systems using proprietary application for Apple® iOS® and Android™ devices

###### Proprietary application features customizable user interface

##### Support of centralized or distributed control system topology with provisions to add and remove control points as needed

##### Support of proprietary remote system monitoring and management application by same manufacturer

###### Application to also support offsite system pre-configuration

##### Native support of BACnet communication protocol

### Device Architecture

#### Physical Form factor

##### 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)

##### Environmental Operating Conditions

###### Temperature: 32° to 104° F (0° to 40° C)

##### Computer

###### Dell® OptiPlex® 7080 Micro Desktop computer

###### Processor: Intel Core® i5-10500T CPU @ 2.30 GHz

###### RAM: 8 GB DDR4 2666 MT/s

###### Storage: 256 GB SSD

###### Network: Intel® I219-LM 100/1000 Mbps Ethernet

###### Operating System: Crestron Home® OS

Specifier Note:

*The micro computer provides control processor functionality for a Crestron Home system. Typical PC functions are not supported.*

### Functions

#### Communications

##### Ethernet: 100/1000 Mbps

##### BACnet™ network / IP: Supports up to 2000 BACnet objects

#### Memory

##### Flash: 8 GB

### Connectors

#### USB-C (Front)

##### (1) USB Type-C® 3.2 (Gen 2) connector, female

##### Connects to a USB flash drive for password reset or factory restore

#### SSUSB 3.2 Gen 2 (Front)

##### (1) USB Type-A 3.2 (Gen 2) connector with PowerShare, female

##### Connects to a USB flash drive for password reset or factory restore

#### LAN: (1) 8-pin RJ-45 connector, female; 100BASE-TX/100BASE-T Ethernet port

#### SSUSB 3.2 Gen 1

##### (2) USB Type-A 3.2 (Gen 1) connectors, female

##### Connects to a USB flash drive for password reset or factory restore

#### SSUSB 3.2 Gen 2

##### (2) USB Type-A 3.2 (Gen 2) connectors, female

##### Connects to a USB flash drive for password reset or factory restore

#### Kensington Lock: (1) Slot for optional Kensington® lock

#### 19.5 VDC: (1) DC power connector; 19.5 VDC power input; for included power adapter

Specifier Note:

*The Audio, Line-Out, Antenna, HDMI® video, and DisplayPort® video connectors are disabled and not used.*

### Controls 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

### Power

#### Power Adapter (Included)

##### Input: 100-240 VAC, 50 / 60 Hz

##### Output: 130 W @ 19.5 V

# EXECUTION

NOT USED in this Guide Specification. Specifier shall Specify PART 3 On-Site work as needed.

# APPENDICES

## SPECIFIED PRODUCTS

Specifier Note: This Article includes Crestron products specified in this Guide Specification document. This Article is for reference only and should not be required in actual project manual unless included in an overall system equipment list.

### Crestron PC4-R

## Input / Output Connection Diagrams

### PC4-R

Diagram

Description automatically generated