

# Cisco Smart+Connected Controllers for Property Developers



The Cisco<sup>®</sup> Smart+Connected Controllers for property developers provide intelligent control for the Cisco Smart+Connected<sup>™</sup> Residential Solution, allowing residents to manage lighting, security, temperature, and multimedia, while also providing a gateway into additional services from the residence. The Cisco Smart+Connected Controllers integrate a broad range of devices using a variety of protocols (IP, ZigBee Pro, infrared [IR], serial, and more). By combining wired and wireless technologies, the Cisco Smart+Connected Controllers provide flexibility in connecting virtually any device located anywhere in the home. All of these services can be controlled through simple and intuitive touchscreen displays or on-screen TV navigators managed through a remote control.

The Smart+Connected Controller operates as the brains behind the home management and monitoring system. It coordinates activities between the connected devices and allows the homeowner to easily manage lighting, thermostats, security settings, and more. In addition, the controller enables support for community services such as communitywide video, e-tutoring, and health services.

## Two controller models are available to provide support for small, medium-sized, and large installations:

- **Cisco Smart+Connected Controller 250:** Provides superior performance and instantaneous control for single-room systems requiring built-in digital High-Definition Multimedia Interface (HDMI) output to the TV.

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- **Cisco Smart+Connected Controller 800:** Provides exceptional processing power and expansive I/O options to connect and control everything in a typical or large home. The Controller 800 features a dual-core 1.8-GHz processor for exceptional power and control.

While individual controllers can support a single room or small abode, additional controllers can be added to provide on-screen TV navigation in other rooms, or in groups, to provide coordinated control throughout a large home or building. These compact devices are easy to mount behind a TV, on a wall, or in a rack so that users can enjoy the power of on-screen control virtually anywhere.

## Features and Benefits

Cisco offers two Smart+Connected Controllers to address the needs of small, medium-sized, or large residences.

### **Cisco Smart+Connected Controller 250**

The Cisco Smart+Connected Controller 250 includes a powerful 1-GHz processor for superior performance and instantaneous control at an exceptional value. Its sleek design and small form-factor make it ideal for single-room control systems or where HDMI is required. Figure 1 shows the front of this controller. Figure 2 shows the back view.

**Figure 1** Front View of the Cisco Smart+Connected Controller 250



**Figure 2** Back View of the Cisco Smart+Connected Controller 250



**The Cisco Smart+Connected Controller 250 provides the following features:**

- Elegant, low-profile design features an integrated power supply for flexible, simple installation behind televisions or on a shelf.
- Instantaneous, intuitive control from touchscreen displays or on-screen TV display is managed through one of the Cisco Smart+Connected Remotes.
- Power over Ethernet (PoE) capability provides the option of power and network connectivity over a single Category 5 or Category 6 (CAT5/CAT6) cable.
- Next-generation core processor and ZigBee processors deliver a new level of speed and performance for instantaneous, interactive on-screen control and access to lighting, security, music, and video libraries.
- Certified HDMI with audio and video capability.
- Integrated Wireless-N and ZigBee simplify installation and provide high-performance network connectivity.
- One dedicated audio output with one analog audio input provides one-line-level audio out.
- USB port enables connection to external storage for easy access to music content.

**Cisco Smart+Connected Controller 800**

The Cisco Smart+Connected Controller 800 has exceptional power and control capabilities, and is designed to run even the most demanding control system. Developed as the foundation for large Cisco Smart+Connected Residential installations, the Controller 800 has the features and processing power to connect to and control everything. The Controller 800 features a dual-core 1.8-GHz processor that provides maximum capacity for a range of services. Figure 3 shows a front view of the Cisco Controller 800, and Figure 4 shows a back view.

**Figure 3** Front View of the Cisco Smart+Connected Controller 800



**Figure 4** Back View of the Cisco Smart+Connected Controller 800



### The Controller 800 provides the following features:

- Sleek, one-rack-unit (1RU) design allows for installation flexibility in a rack, a cabinet, or on a shelf.
- Instantaneous, intuitive control from a display touchscreen or on-screen TV navigator managed through one of the Cisco Smart+Connected Remotes.
- Next-generation core and ZigBee processors deliver a new level of speed and system responsiveness to control lighting scenes, security, and automation functions, or to interact with large music or video libraries.
- Expansive I/O to control devices through IR, RS-232 serial, IP, ZigBee Pro, contacts, and relays.
- Three dedicated audio outputs—two analog and one digital—and one analog audio input.
- Integrated Wireless-N and ZigBee with external antennas provide superior wireless performance, especially in rack-mounted installations.
- Certified HDMI with audio and video capability.
- eSATA and USB ports enable connections to external storage with music or video content.

## Supporting Products

If your customers prefer the added functionality of on-screen navigation, order a Cisco Smart+Connected Remote or a Cisco Smart+Connected 7" In-wall Display or Portable Tablet separately to use with the Cisco Smart+Connected Controller. A Cisco Smart+Connected I/O Extender can be added to increase the capacity and number of available ports. A rack mount kit is also available for the Cisco Controller 800. Table 1 lists the names and part numbers for these

supporting products.

**Table 1** Cisco Smart+Connected Residential Products Used with the Cisco Controller 250 and Controller 800

| Product Name                               | Part Number            |
|--|------------------------|
| Cisco Smart+Connected Universal Remote 150 | SCH-REMOTE-150         |
| Cisco Smart+Connected Universal Remote 250 | SCH-REMOTE-250         |
| Cisco Smart+Connected 7" In-wall Display   | SCH-7IN-TS (-W and -B) |
| Cisco Smart+Connected Portable Tablet      | SCH-TABLET             |
| Cisco Smart+Connected I/O Extender         | SCH-IO-EXT-8           |
| Rack-Mount Kit for Controller 800          | SCH-RCKMNT-HC800       |

## Product Specifications

Table 2 lists product specifications for the Cisco Controller 250 and Controller 800.

**Table 2** Specifications for the Cisco Controller 250 and Controller 800

| Basic Specification                              | Controller 250   | Controller 800                     |
|--|--|------------------------------------|
| <b>A/V Inputs and Outputs</b>                    |  |                                    |
| HDMI Out (Digital Audio and On-screen Navigator) | 1  | 1                                  |
| Component Video Out                              | 1  | 1                                  |
| Analog Audio Out                                 | 1 (3.5 mm connector)   | 2 pairs (RCA)                      |
| Analog Audio Input to Convert to Digital         | 1 (3.5 mm connector)   | 1 pair (RCA)                       |
| Digital Audio Out - Coax (RCA)                   | N/A  | 1                                  |
| Total number of Dedicated Audio Outputs          | 1  | 3                                  |
| <b>Network</b>                                   |  |                                    |
| Ethernet ports × speed                           | 1 × 10/100/1000 (802.3u)   | 1 × 10/100/1000 (802.3ab)          |
| Power over Ethernet/power consumption            | 802.3af/12.95W   | N/A                                |
| Wireless   | Wireless-N, (2.4GHz, 802.11n/g)                                    | Wireless-N, (2.4GHz, 802.11n/g)    |
| Wireless security                                | Wired Equivalent Privacy (WEP), Wi-Fi Protected Access (WPA), WPA2 | WEP, WPA and WPA2                  |
| Wireless antenna                                 | Internal   | 2 external, reverse SMA connectors |
| ZigBee Pro                                       | 802.15.4   | 802.15.4                           |
| ZigBee antenna                                   | Internal   | 1 external, reverse SMA            |

| Basic Specification                               | Controller 250  | Controller 800   |
|---|---|--|
|   |   | connector  |
| USB 2.0   | 1   | 1  |
| External SATA                                     | 0   | 1  |
| <b>Control</b>                                    |   |  |
| Contacts  | 1   | 4  |
| Relays  | 1   | 4  |
| IR Outputs for Individual Device Control (3.5 mm) | 4   | 6  |
| IR Blaster for Multiple Device Control (front)    | Yes   | Yes  |
| IR Input (Used for IR Learning)                   | Yes   | Yes  |
| RS-232 for Serial Controlled Devices              | 2 (3-wire, using IR ports 1 and/or 2)                       | 2 DB9  |
| <b>Mounting Options</b>                           |   |  |
| Rack Ear Kit                                      | N/A   | Rack Mount kit for Controller 800<br>SCH-RCKMNT-HC800        |
| Shelf (with A/V gear)                             | Yes   | Yes  |
| Wall/TV mount                                     | Yes   | No   |
| Dimensions (H×W×D)                                | 1.23" x 8.59" x 4.92"<br>(31.19 mm x 218.13 mm x 125.01 mm) | 1.98" x 17.32" x 9.15"<br>(50.2 mm x 439.9 mm x 232.4 mm)    |
| Weight  | 1.8 lbs (0.82 kg)   | Approx. 6.1 lbs (2.766 kg)                                   |
| <b>Environmental</b>                              |   |  |
| Normal operating temperature                      | 32°F to 104°F<br>(0°C to 40°C)                              | 32°F to 95°F<br>(0°C to 35°C)                                |
| Storage temperature                               | -4° F to 149° F<br>(-20°C to 65°C)                          | -4° F to 149° F<br>(-20°C to 65°C)                           |
| <b>Power</b>                                      |   |  |
| Power supply                                      | Internal  | External   |
| Power supply                                      | Input: 100–240V, 50–60 Hz                                   | Input: 100–240 VAC,<br>50–60 Hz;<br>Output: 19V, 3.43A (65W) |
| <b>Other</b>                                      |   |  |
| On-screen navigator supported resolutions         | 720p, 480p  | 720p, 480p   |
| Supported audio formats                           | MP3: 32 kbps to 320 kbps, CBR, VBR, AAC, and FLAC           | MP3: 32 kbps to 320 kbps, CBR, VBR, AAC, and FLAC            |

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## Availability

The Cisco Smart+Connected Controllers are available to select property developers on a limited geographical basis. If you have an opportunity that could benefit from this solution, please contact your Cisco sales representative.

## Warranty Information

Find warranty information on Cisco.com at the [Product Warranties](#) page.

## Ordering Information

Cisco Smart+Connected Residential products are available through your Cisco authorized reseller. Table 3 lists the ordering information.

**Table 3** Ordering Information

| Product Name                         | Part Number     |
|--------------------------------------|-----------------|
| Cisco Smart+Connected Controller 250 | SCH-CONTROL-250 |
| Cisco Smart+Connected Controller 800 | SCH-CONTROL-800 |

## Cisco Support

Cisco offers a wide range of support programs to accelerate customer success. These innovative programs are delivered through a unique combination of people, processes, tools, and partners, resulting in high levels of customer satisfaction. For more information, contact your Cisco sales representative.

## For More Information

For more information about the Cisco Smart+Connected Residential products please contact your Cisco sales representative or visit: <http://www.cisco.com/go/smartconnectedresidential>.



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