

# Cisco Unified IP Phone Expansion Module 7916

Cisco<sup>®</sup> Unified Communications is a comprehensive IP communications system of voice, video, data, and mobility products and applications. It enables more effective, more secure, more personal communications that directly affect both sales and profitability. It brings people together by enabling a new way of communicating — where your business moves with you, security is everywhere, and information is always available...whenever and wherever it is needed. Cisco Unified Communications is part of an integrated solution that includes network infrastructure, security, mobility, network-management products, lifecycle services, flexible deployment and outsourced management options, end-user and partner financing packages, and third-party communications applications.

The power of the Cisco Unified Communications family of products extends throughout the enterprise by delivering powerful, converged voice solutions with the new Cisco Unified IP Phone Expansion Module 7916 extending capabilities to wideband audio phones (Figure 1).



Figure 1. Cisco Unified IP Phone Expansion Module 7916

## **Product Overview**

Call coverage is a critical capability for administrative assistants and others who must monitor, manage, and cover the status of calls. This capability requires the ability to instantly determine the status of numerous lines beyond the six-line capability of the Cisco Unified IP Phone 7962G and 7965G models and eight-line capability of the Cisco Unified IP Phone 7975G.

The Cisco Unified IP Phone Expansion Module 7916 extends the capabilities of the Cisco Unified IP Phone 7962G, 7965G, and 7975G models with additional buttons and an LCD display. With this expansion module, you add 12 physical keys with access to 12 additional keys through the page keys for a total of 24 buttons to the existing 6 buttons of the Cisco Unified IP Phone 7962G and 7965G (Figure 2) models and the existing 8 buttons of the Cisco

Unified IP Phone 7975G. You can use up to two Cisco Unified IP Phone Expansion Module 7916 modules (Figure 3) with the Cisco Unified IP Phone 7962G, 7965G, and 7975G models.



Figure 2. Cisco Unified IP Phone 7975G with One Cisco Unified IP Phone Expansion Module 7916

Figure 3. Cisco Unified IP Phone 7975G with Two Cisco Unified IP Phone Expansion Module 7916 Modules



## **Features and Benefits**

The large LCD display of the Cisco Unified IP Phone Expansion Module 7916 allows for quick and easy identification of associated buttons. Using the Settings menu of the Cisco Unified IP Phone 7962G, 7965G, and 7975G models, you can adjust the brightness of the individual LCDs for these phones and the Cisco Unified IP Phone Expansion Module 7916 according to your preference. You can program the buttons on each Cisco Unified IP Phone Expansion Module 7916 as a directory number, line key, or speed-dial key, much like on the Cisco Unified IP Phone 7962G, 7965G, and 7975G models. Buttons used as a directory-number (DN) or shared line keys are illuminated, allowing easy identification of call state (Table 1).

#### Table 1.Illuminated Buttons

| Button          | Line Status                 |
|-----------------|-----------------------------|
| Off (dark)      | Line available              |
| Green, steady   | Line in use                 |
| Red, steady     | Line in use by someone else |
| Amber, flashing | Line ringing                |
| Green, flashing | Call is on hold             |

These capabilities provide features that are similar to typical Direct Station Selection/Busy Lamp Field (DSS/BLF) modules but are not intended to be directly comperable to traditional DSS/BLF modules. The Cisco Unified IP Phone Expansion Module 7916 is not an operator or attendant console. The primary function of this module is to provide the Cisco Unified IP Phone 7962G, 7965G, and 7975G models with additional keys for features such as speed dial or directory numbers. The illuminated buttons provide ease of line status, making the Cisco Unified IP Phone Expansion Module 7916 an ideal call-coverage tool.

The two illuminated page buttons beneath the display of the Cisco Unified IP Phone Expansion Module 7916 allow you to shift between the first and second pages of 12 buttons, providing access to all 24 keys, 12 at a time (Table 2). Table 3 lists the features of the Cisco Unified IP Phone Expansion Module 7916.

| Table 2. | Illuminated Page Buttons |
|----------|--------------------------|
|----------|--------------------------|

| Button          | Page Status  |  |
|-----------------|--|--|
| Off (dark)      | Page not in focus  |  |
| Green, steady   | Page in focus  |  |
| Amber, flashing | Page not in focus with one or more alerting or on-hold calls present on page |  |

#### Table 3. Features and Description

| Feature                              | Description  |  |
|--------------------------------------|--|--|
| Graphical display                    | 4.3" graphical (TFT) color display, 16-bit color depth, 480 x 272 effective pixel resolution, with backlight. The display also supports localization requiring double-byte Unicode encoding for fonts.   |  |
| Directory-number and feature buttons | The module has 12 physical buttons (24 with page key).   |  |
| Page buttons                         | The two Page buttons are used to access each page of 12 buttons and provide phone status.  |  |
| Sleep or inactivity mode             | When Cisco Unified IP Phone 7965G or 7975G models are in power-saving sleep or inactivity mode, the<br>Cisco Unified IP Phone Expansion Module 7916 is also in sleep or inactivity mode. In addition to the<br>Display button, any button on the Cisco Unified IP Phone Expansion Module 7916 that is pressed will<br>cause the displays to awaken. The inactivity period is configured by the system administrator. |  |

## **Software Requirements**

Table 4 lists the software requirements for the Cisco Unified IP Phone Expansion Module 7916.

| Table 4. Cis | sco Unified IP Phone E | xpansion Module 7916 | Software Requirements |
|--------------|------------------------|----------------------|-----------------------|
|--------------|------------------------|----------------------|-----------------------|

| Specification               | Description  |
|-----------------------------|--|
| Phone software requirements | 8.3(5) and later   |
| Call-control compatibility  | Cisco Unified Communications Manager 4.2(3) SR3a, 4.3(2), 5.1(3)b, 6.1(1), 7.0, 7.1 and later; Cisco Unified Communications Manager Express 4.3/7.0 and later. Cisco Unified Survivable Remote Site Telephony (Unified SRST) 4.1 (IOS 12.4.15T) and later. |
| Signaling protocols         | Skinny Client Control Protocol (SCCP) Software 8.3(5) and later<br>Session Initiated Protocol (SIP) Software 8.4(1) and later  |

The Cisco Unified IP Phone Expansion Module 7916 allows for 48 additional buttons (with two modules), but the number of buttons depends on the Cisco Unified Communications Manager and Cisco Unified Communications Manager Express Release, as listed in Table's 5 and 6.

Table 5. Cisco Unified IP Phone Expansion Module 7916 Button Support (SCCP)

| Call-Control Release   | Total Number of Buttons Supported                |                                 |
|--|--|---------------------------------|
|  | Cisco Unified IP Phone<br>7962G and 7965G Models | Cisco Unified IP Phone<br>7975G |
| Cisco Unified Communications Manager 4.2(3)SR3a, 4.3(2), 5.1(3)b, and 6.1(1)           | 42   | 42                              |
| Cisco Unified Communications Manager 7.1(3) / Cisco IP Phone Firmware 8.5(3) and later | 54   | 56                              |
| Cisco Unified Communications Manager Express 4.3/7.0 and later                         | 54   | 56                              |

Table 6. Cisco Unified IP Phone Expansion Module 7916 Button Support (SIP)

| Call-Control Release   | Total Number of Buttons Supported                |                                 |
|--|--|---------------------------------|
|  | Cisco Unified IP Phone<br>7962G and 7965G Models | Cisco Unified IP Phone<br>7975G |
| Cisco Unified Communications Manager 7.0 and 7.1                                       | 36   | 36                              |
| Cisco Unified Communications Manager 7.1(3) / Cisco IP Phone Firmware 8.5(3) and later | 54   | 56                              |
| Cisco Unified Communications Manager Express 4.3/7.0 and later                         | 54   | 56                              |

## **Hardware Requirements**

- Cisco Unified IP Phone 7962G, 7965G, and 7975G models
- Cisco Unified IP Phone Expansion Module 7916 (CP-7916=)
  - The maximum is two modules (connecting cable supplied with each Cisco Unified IP Phone Expansion Module 7916)
- Footstand is required; single (CP-SINGLFOOTSTAND=) or double (CP-DOUBLFOOTSTAND=) (required items for double Cisco Unified Expansion Module installation shown in Figure 4).
  - Replacement of the standard Cisco Unified IP phone footstand is required. The standard footstand is replaced with a two-piece footstand specifically designed to support the Cisco Unified IP Phone Expansion Module 7916. Two footstands are available: a single footstand when one Cisco Unified IP Phone Expansion Module 7916 is used and a double footstand when two Cisco Unified IP Phone Expansion Module 7916 are used.
  - The only tool required for installation of the Cisco Unified IP Phone Expansion Module 7916 is a flat-blade screwdriver or other appropriate tool to unlatch the pins securing the footstand to the Cisco Unified IP Phone 7962G, 7965G, and 7975G models.
- Power cube (CP-PWR-CUBE-3=) and cord (CP-PWR-CORD-xx=) to supply local power

Table 6 gives power options for the Cisco Unified IP Phone Expansion Module 7916.



## Figure 4. Required Items for Double Cisco Unified IP Phone Expansion Module Installation

#### Table 7. Power Requirements

| Number of Cisco Unified IP Phone<br>Expansion Module 7916 Modules | Cisco Unified IP Phone 7962G, 7965G,<br>and 7975G Models Power Source | Items to Order  |
|---|---|---|
| 1   | In-line   | 1 Cisco Unified IP Phone Expansion Module 7916<br>1 single footstand<br>1 power cube<br>1 country cord  |
| 1   | Local power (cube)*   | 1 Cisco Unified IP Phone Expansion Module 7916<br>1 single footstand                                    |
| 2   | In-line or local**  | 2 Cisco Unified IP Phone Expansion Module 7916s<br>1 double footstand<br>1 power cube<br>1 country cord |

\* A single Cisco Unified IP Phone Expansion Module 7916 can receive power from a locally powered Cisco Unified IP phone. \*\* Local power must be connected to the first Cisco Unified IP Phone Expansion Module 7916 to supply power to both Cisco Unified IP Phone Expansion Module 7916 modules.

Tables 7 and 8 give specifications and temperature ratings, respectively, for the Cisco Unified IP Phone Expansion Module 7916.

| Table 8. | Cisco Unified IP Phone Expansion Module 7916 Technical Specifications |
|----------|---|
|          |   |

| Specification          | Description                                 |
|------------------------|---|
| Dimensions (H x W x D) | 8.0 x 4.84 x 2.0 in.<br>(203 x 123 x 51 mm) |
| Weight                 | 0.83 lb (376g)                              |
| Power                  | 48 VDC, 58 mA maximum                       |

#### **Table 9.**Temperature Ratings

| Temperature Variable  | Description               |
|-----------------------|---------------------------|
| Operating temperature | 32 to 104°F (0 to 40°C)   |
| Relative humidity     | 10 to 95%                 |
| Storage temperature   | 12 to 140°F (-10 to 60°C) |

# **Certifications-Compliance and Safety**

For information about certifications, visit: http://www.cisco.com/univercd/cc/td/doc/product/voice/c\_ipphon/english/ipp7960/iphrcsi3.htm.

## **Ordering Information**

To place an order, visit the <u>Cisco Ordering Home Page</u> and refer to Tables 9 and 10. To download software, visit the <u>Cisco Software Center</u>.

#### Table 10. Ordering Information

| Product Number     | Description                                    |
|--------------------|--|
| CP-7916=           | Cisco Unified IP Phone Expansion 7916 Module   |
| CP-SINGLFOOTSTAND= | Single module footstand                        |
| CP-DOUBLFOOTSTAND= | Double module footstand                        |
| CP-PWR-CUBE-3=     | Cisco Unified IP Phone Power Cube              |
| CP-PWR-CORD-xx=    | Cisco Unified IP Phone Power Cube Country Cord |

#### Table 11. Ordering Information — AC Country Power Cords

| Product Number  | Description        |
|-----------------|--------------------|
| CP-PWR-CORD-AP= | Asia Pacific       |
| CP-PWR-CORD-AR= | Argentina          |
| CP-PWR-CORD-AU= | Australia          |
| CP-PWR-CORD-CE= | European Community |
| CP-PWR-CORD-CN= | China              |
| CP-PWR-CORD-JP= | Japan              |
| CP-PWR-CORD-NA= | North America      |
| CP-PWR-CORD-SW= | Switzerland        |
| CP-PWR-CORD-UK= | United Kingdom     |

# Warranty

Cisco Unified IP phones are covered by a Cisco standard 1-year replacement warranty.

# For More Information

For more information about the Cisco IP Phone Expansion Module 7916, visit <u>http://www.cisco.com/en/US/products/hw/phones/ps379/ps1851/index.html</u> or contact your local Cisco account representative.



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