

Cisco Unified IP Phones Guide



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This guide provides key technical information for Cisco Unified IP Phones.
This document will be updated periodically.

For feedback on this guide or any comments about the information presented in it, send e-mail to IPphoneguide@cisco.com

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Cisco Unified IP Phones

Model	Wireless 7921G	Wireless 7925G	7925G-EX	7926G
				
License (RTU)	4 DLU	4 DLU	4 DLU	4 DLU
Integral Switch	N/A	N/A	N/A	N/A
Display	2.0" (5.1 cm), graphical, backlit, 176 x 220, color	2" (5.1 cm) graphical, backlit, 176 x 220, color	Digital, 16-bit graphical backlit TFT Color, 2"	Digital, 16-bit graphical backlit TFT Color, 2"
Touch Screen	No	No	No	No
Speakerphone	Yes	Yes	Yes	Yes
Number of Line Keys	N/A	N/A	N/A	N/A
Programmable (Soft) Keys	2	2	2	2
Fixed Feature Keys	5	5	5	5
Advanced Features	Push-to-Talk via XML	Bluetooth v2.0, Push-to-Talk via XML	Atmospheres Explosibles (ATEX) Zone 2/Class 22, IP64 rating	Integrated EA11 2D bar-code scanner, MIDlets
Handsfree	Yes	Yes	Yes	Yes
Message Waiting Indication	Yes	Yes	Yes	Yes
Third-Party XML Support	Yes	Yes	Yes	Yes
Headset Port	Yes	Yes	Yes	Yes
Signaling Protocol	SCCP	SCCP	SCCP	SCCP
Other Protocols Supported	802.11a/b/g	802.11a/b/g	802.11a/b/g	802.11a/b/g
802.3AF	N/A	N/A	N/A	N/A
Cisco Power	N/A	N/A	N/A	N/A
PoE Classification	N/A	N/A	N/A	N/A
DHCP	Yes	Yes	Yes	Yes
802.1p/q	N/A	N/A	N/A	N/A
CODECS	G.711a, G.711u, G.729a, G.729ab, G.722, and Internet Low Bitrate Codec (iLBC)	G.711a, G.711u, G.729a, G.729ab, G.722, and Internet Low Bitrate Codec (iLBC)	G.711a, G.711u, G.729a, G.729ab, G.722, and Internet Low Bitrate Codec (iLBC)	G.711a, G.711u, G.729a, G.729ab, G.722, and Internet Low Bitrate Codec (iLBC)
Supported Cisco Call Control Platform(s)	CUCM 4.1 and later	CUCM 4.1 and later	CUCM 4.1 and later	CUCM 4.1 or later
User Connect License	Enhanced	Enhanced	Enhanced	Enhanced
UC Manager Encryption Support (TLS/SRTP)	Yes	Yes	Yes	Yes

Model	7931G	Conference Station 7937G	3905
			
License (RTU)	4 DLU	3 DLU	N/A
Integral Switch	10/100	No	10/100
Display	4.3" (10.8 cm), graphical, backlit, 192 x 64, monochrome	Pixel-based	128 x 32 pixel-based, graphical monochrome LCD without backlit
Touch Screen	No	No	No
Speakerphone	Yes	Yes	Yes
Number of Line Keys	24	1 line (0 line keys)	1
Programmable (Soft) Keys	4 soft keys, 22 line keys for use as lines, speed dials or PLKs	4	0
Fixed Feature Keys	7	9	8
Advanced Features	Join across lines, Transfer across lines	Optional wired microphone kit	
Handsfree	Yes	Yes Speakerphone	Yes
Message Waiting Indication	Yes	No	Yes
Third-Party XML Support	Text XML only	Yes	No
Headset Port	Yes	No	No
Signaling Protocol	SCCP/SIP	SCCP	SIP
Other Protocols Supported		None	
802.3AF	Yes	Cisco inline power, power cube	Yes
Cisco Power	Yes	Yes	N/A
PoE Classification	Class 3	Class 3	Class 1
DHCP	Yes	Yes + Static	Yes
802.1p/q	Yes	Yes	Yes
CODECS	G.711a, G.711u, G.729a, G.729b, and G.729ab	G.711, G.711a, G.722, G.729a, G.729b, G.729ab	G.711a, G.711μ, G.729, G.729a, and G.729b
Supported Cisco Call Control Platform(s)	SCCP - CUCM 6.0 or later SIP - CUCM 7.0 or later	CUCM 4.1 and later	CUCM 7.1(5) or later CUCMBE3000 - 8.6 CUCMBE5000 - 8.5 CUCMBE6000 - 8.5
User Connect License	Enhanced	Enhanced	Essential
UC Manager Encryption Support (TLS/SRTP)	Yes (SCCP only)	No	No

Model	7942G	7945G	7962G	7965G
				
License (RTU)	4 DLU	4 DLU	4 DLU	4 DLU
Integral Switch	10/100	10/100/1000	10/100	10/100/1000
Display	5.0" (12.7 cm), graphical, 320 x 222, 4-bit, gray scale	5.0" (12.7 cm), graphical, 320 x 240, backlit, 16-bit, color	5.0" (12.7 cm), graphical, 320 x 222, 4-bit, gray scale	5.0" (12.7 cm), graphical, 320 x 240, backlit, 16-bit, color
Touch Screen	No	No	No	No
Speakerphone	Yes	Yes	Yes	Yes
Number of Line Keys	2 - lighted	2 - lighted	6 - lighted	6 - lighted
Programmable (Soft) Keys	4 soft keys, 2 line keys for use as lines, or as a line plus a speed dial or PLK	4 soft keys, 2 line keys for use as lines, or as a line plus a speed dial or PLK	4 soft keys, 6 line keys for use as lines, speed dials or PLKs	4 soft keys, 6 line keys for use as lines, speed dials or PLKs
Fixed Feature Keys	10	10	10	10
Advanced Features	High-resolution and many infrastructure integration options; support of Headset Hookswitch Control	High-resolution and many infrastructure integration options; support of Headset Hookswitch Control	High-resolution and many infrastructure integration options; support of Headset Hookswitch Control; key Expansion Module support with up to 2 7914s, 7915s or 7916s	High-resolution and many infrastructure integration options; support of Headset Hookswitch Control; key Expansion Module support with up to 2 7914s, 7915s or 7916s
Handsfree	Yes, Wideband support	Yes, Wideband support	Yes, Wideband support	Yes, Wideband support
Message Waiting Indication	Yes	Yes	Yes	Yes
Third-Party XML Support	Yes	Yes	Yes	Yes
Headset Port	Yes, Wideband support	Yes, Wideband support	Yes, Wideband support	Yes, Wideband support
Signaling Protocol	SCCP/SIP	SCCP/SIP	SCCP/SIP	SCCP/SIP
802.3AF	Yes	Yes	Yes	Yes
Cisco Power	Yes	No	Yes	No
PoE Classification	Class 2	Class 3	Class 2	Class 3
Supported Cisco Call Control Platform(s)	CUCM 4.1 or later	CUCM 4.1 or later	CUCM 4.1 or later	CUCM 4.1 or later
DHCP	Yes	Yes	Yes	Yes
802.1p/q	Yes	Yes	Yes	Yes
User Connect License	Enhanced	Enhanced	Enhanced	Enhanced
UC Manager Encryption Support (TLS/SRTP)	Yes	Yes	Yes	Yes

Model	7975G	IP Communicator	Expansion Module 7915	Expansion Module 7916
				
License (RTU)	5 DLU	3 DLU	N/A	N/A
Integral Switch	10/100/1000	N/A	N/A	N/A
Display	5.6" (14.2 cm), graphical, 320 x 240, backlit, 16-bit, color with touch screen	PC settings	4.3" high-resolution (480 x 272), graphical monochrome 4-bit grayscale	4.3" graphical (TFT) backlit (480 x 272) 16-bit color
Touch Screen	Yes			
Speakerphone	Yes			
Number of Line Keys	8 - lighted	8	24 (12 buttons, 2 display pages)	24 (12 buttons, 2 display pages)
Programmable (Soft) Keys	5 soft keys, 8 line keys for use as lines, speed dials or PLKs	5(+8 speed dial/line)		
Fixed Feature Keys	10	10		
Advanced Features	High-resolution and many infrastructure integration options; key Expansion Module support with up to 2 7914s, 7915s or 7916s; Support of Headset Hookswitch Control.	Software application		
Handsfree	Yes, Wideband support	Yes		
Message Waiting Indication	Yes	Yes		
Third-Party XML Support	Yes	Yes		
Headset Port	Yes, Wideband support	Required on PC		
Signaling Protocol	SCCP/SIP	SCCP	SCCP/SIP (with appropriate UCM firmware release)	SCCP/SIP (with appropriate UCM firmware release)
802.3AF	Yes	N/A		
Cisco Power	No	N/A		
PoE Classification	Class 3	N/A		
Supported Cisco Call Control Platform(s)	CUCM 4.1 or later			
DHCP	Yes	Yes		
802.1p/q	Yes	N/A		
User Connect License	Enhanced			
UC Manager Encryption Support (TLS/SRTP)	Yes	Yes	N/A	N/A

Model	Nokia Dual-Mode	6901	6911	6921
				
License (RTU)	6 DLU	2 DLU	2 DLU	3 DLU
Integral Switch	N/A	No	10/100	10/100
Display		No	No	396 x 81 pixel-based, anti-glare graphical monochrome display with white backlight
Touch Screen				No
Speakerphone				Yes
Number of Line Keys	N/A	1	1	2
Programmable (Soft) Keys		No	No	4
Fixed Feature Keys		4	10	11
Advanced Features				Join across lines, Transfer across lines
Handsfree		No	Yes	Yes
Message Waiting Indication		Yes	Yes	Yes
Third-Party XML Support		No	No	Yes
Headset Port		No	No	Yes
Signaling Protocol	SCCP	SCCP and SIP	SCCP and SIP	SCCP and SIP
Other Protocols Supported	802.11b/g	N/A	N/A	N/A
Comparable with Cisco's		Yes	Yes	
802.3AF	N/A	Yes	Yes	Yes
Cisco Power	N/A	No	No	No
PoE Classification	N/A	Class 1	Class 1	Class 2
DHCP	Yes	Yes	Yes	Yes
802.1 p/q	N/A	Yes	Yes	Yes
CODECS		G.711a, G.711u, G.729a, G.729b, and G.729ab, and Internet Low Bitrate Codec (iLBC)	G.711a, G.711u, G.729a, G.729b, and G.729ab and Internet Low Bitrate Codec (iLBC)	G.711a, G.711, G.729a, G.729b, G.729ab, and Internet Low Bitrate Codec (iLBC)
User Connect License		Essential	Basic	Basic
Supported Cisco Call Control Platform(s)		CUCM 7.1(3) and later	CUCM 7.1(3) and later	CUCM 7.1(3) and later
UC Manager Encryption Support (TLS/SRTP)	No	Yes	Yes	Yes
Notes	Nokia Phone is NOT orderable through Cisco			

Model	6941	6945	6961
			
License (RTU)	3 DLU	3 DLU	3 DLU
Integral Switch	10/100	10/100/1000	10/100
Display	396 x 162 pixel-based, anti-glare graphical monochrome display with white backlight	396 x 162 pixel-based, anti-glare graphical monochrome display with white backlight	396 x 162 pixel-based, anti-glare graphical monochrome display with white backlight
Touch Screen	No		
Speakerphone	Yes		
Number of Line Keys	4	4	12
Programmable (Soft) Keys	4	4	4
Fixed Feature Keys	11	11	11
Advanced Features	Join across lines, Transfer across lines	Gig Ethernet, Wideband Audio	Join Across Lines, Transfer across lines
Handsfree	Yes	Yes	Yes
Message Waiting Indication	Yes	Yes	Yes
Third-Party XML Support	Yes	Yes	Yes
Headset Port	Yes	Yes	Yes
Signaling Protocol	SCCP and SIP	SCCP and SIP	SCCP and SIP
Other Protocols Supported	N/A	N/A	N/A
Comparable with Cisco's			
802.3AF	Yes	Yes	Yes
Cisco Power	No	No	No
PoE Classification	Class 2	Class 1	Class 2
DHCP	Yes	Yes	Yes
802.1 p/q	Yes	Yes	Yes
CODECS	G.711a, G.711, G.729a, G.729b, G.729ab, and Internet Low Bitrate Codec (iLBC)	G.711a, G.711u, G.729a, G.729ab, G.722, and Internet Low Bitrate Codec (iLBC)	G.711a, G.711, G.729a, G.729b, G.729ab, and Internet Low Bitrate Codec (iLBC)
User Connect License	Enhanced	Enhanced	Enhanced
Supported Cisco Call Control Platform(s)	CUCM 7.1(3) and later	CUCM 7.1(3) and later	CUCM 7.1(3) and later
UC Manager Encryption Support (TLS/SRTP)	Yes	Yes	Yes

Model	CUPC	9971	9951	8941
				
License (RTU)	5 DLU	4 DLU	4 DLU	N/A
Integral Switch	N/A	10/100/1000 802.11 a/b/g Wi-Fi	10/100/1000	10/100
Display	PC Settings	VGA presentation, 5.6 in. (14 cm) graphical color touch screen, 24 bit color depth 640 x 480 effective pixel resolution	VGA presentation 5 in (10 cm) Graphical TFT color display, 24-bit color depth 640 x 480 effective pixel resolution	VGA video calling, and applications, 5-inch graphical TFT color display, 24-bit color depth, 640 x 480 pixel resolution
Number of Line Keys	N/A	6	5	4
Programmable (Soft) Keys	N/A	4 (via touch screen)	4	4
Fixed Feature Keys	N/A	12	12	13
Advanced Features	Group Chat, Presence, Directory Pictures, One Click Email - Video Call - Regular Call	Desktop Wi-Fi Ethernet XML & Midlet apps QoS reporting, KEM support/SDIO Card	XML and Midlet apps QoS reporting, KEM support	Integrated Camera
Handsfree	Yes	Yes	Yes	Yes
Message Waiting Indication	Yes	Yes	Yes	Yes
Third-Party XML Support	Yes	Yes	Yes	Yes
Headset Port	Required on PC	Yes HD Voice	Yes HD Voice	Yes
Signaling Protocol	SIP	SIP for signaling H.264 for video	SIP for signaling H.264 for video	SCCP or SIP for signaling, H.264 for video
Other Protocols Supported	None	WiFi/Bluetooth/2 USB ports/Audio In-Out (GPIO)	Bluetooth/2 USB ports/Audio In-Out (GPIO)	
Comparable with Cisco's		N/A	N/A	
802.3AF	N/A	Yes	Yes	Yes
Cisco Power	N/A	No	No	No
PoE Classification	N/A	4	4	1
DHCP	Yes	Yes	Yes	Yes
802.1 p/q		Yes	Yes	Yes
CODECS	G.711, G.729, G.722	G.711a, G.711u, G.729a, G.729ab, G.722, Internet Low Bitrate Codec (iLBC)	G.711a, G.711u, G.729a, G.729ab, G.722, Internet Low Bitrate Codec (iLBC)	G.711a, G.711u, G.729a, G.729ab, G.722, and Internet Low Bitrate (iLBC)
SRTP/TLS (for Cisco IP Phones Only)	No	Yes	Yes	Yes
User Connect License		Enhanced	Enhanced	Enhanced
Supported Cisco Call Control Platform(s)	CUCM 6.1, 7.0, 7.1, 8.0	CUCM 7.1(3)su1	CUCM 7.1(3)su1	CUCM 7.1(5) and later
UC Manager Encryption Support (TLS/SRTP)	Yes	Yes	Yes	Yes

Model	8945	8961	KEM	Cisco Unified Video Camera
				
License (RTU)	N/A	4 DLU	N/A	N/A
Integral Switch	10/100/1000	10/100/1000	N/A	N/A
Display	VGA video calling, and applications, 5-inch graphical TFT color display, 24-bit color depth, 640 x 480 pixel resolution	Digital, 24-bit graphical backlit TFT color, 5"	4.3 in. graphical (TFT) color display 16 bit color depth, 480 x 272 effective resolution	
Number of Line Keys	4	5	2 x 18	
Programmable (Soft) Keys	4	4	N/A	
Fixed Feature Keys	13	12	Page Key	
Advanced Features	Integrated Camera, Bluetooth	XML and Midlet apps QoS reporting, KEM support	Power save, sleep and inactivity mode line keys are programmable - Optional cable to tether KEM for limited desk space	Optional cable and clip shipped with camera to mount on Laptop - Manual Shutter
Handsfree	Yes	Yes	N/A	
Message Waiting Indication	Yes	Yes	N/A	
Third-Party XML Support	Yes	Yes	N/A	
Headset Port	Yes	Yes HD Voice		
Signaling Protocol	SCCP or SIP for signaling, H.264 for video	SIP	N/A	
Other Protocols Supported	Bluetooth	N/A	N/A	
Comparable with Cisco's		N/A		
802.3AF	Yes	Yes	Yes	
Cisco Power	No	No	N/A	
PoE Classification	2	3	N/A	
DHCP	Yes	Yes	N/A	
802.1 p/q	Yes	Yes	N/A	
CODECS	G.711a, G.711u, G.729a, G.729ab, G.722, and Internet Low Bitrate (iLBC)	G.711a, G.711u, G.729a, G.729ab, G.722, Internet Low Bitrate Codec (iLBC)	N/A	
User Connect License	Enhanced	Enhanced		
SRTP/TLS (for Cisco IP Phones Only)	Yes	Yes	N/A	
Supported Cisco Call Control Platform(s)	CUCM 7.1(5) and later	CUCM 7.1(3)su1		
UC Manager Encryption Support (TLS/SRTP)	Yes	Yes	N/A	

Cisco TelePresence Endpoints

	E20	EX60	EX90	C20
Cisco TelePresence Endpoints				
CUCM Version	8.5(1)	8.6(1)	8.6(1)	8.6(1)
Video Quality	W448p30 (16:9)	1080p 30/720p 60	1080p 30/720p 60	1080p 30/720p 60
Video Standards	H.264, H.263+, H.263	H.261, H.264, H.263+, H.263	H.261, H.264, H.263+, H.263	H.261, H.263, H.263+, H.264
Screen Size/Resolution	10.6" WXGA (1280 x 768)	21.5"/1920 x 1080	24"/1920 x 1200	16:9 Widescreen, default resolution for HDMI is 1280 x 720@60Hz.
Camera Included	Yes, 39° total view +5°/-5° digital tilt	Yes, 1080p30, 50° view Doc cam	1080p30, 45° - 65° view (zoom) Doc cam	1080p12 x, 12 x zoom, +15°/-25° tilt, +/- 90° pan, 43.5° vertical, 72° horizontal
MultiSite	No	No	Yes	No
Bandwidth	SIP up to 1152 kbps	SIP up to 6 Mbps point-to-point	SIP up to 6 Mbps point-to-point	SIP up to 6 Mbps point-to-point
Power	Auto-sensing power supply 100-240 VAC, 50-60 Hz 24 watts max	Autosensing power supply 100-240 VAC, 50/60 Hz, 75 watts max	Autosensing power supply 100-240 VAC, 50/60 Hz, 150 watts max	Auto-sensing power supply, 100-240 VAC, 50/60 Hz, 75 watts max.
Audio	Ultra wideband 20 kHz speaker phone	2 front speakers	2 front speakers and subwoofer	CD-Quality 20kHz Mono, 1 acoustic echo canceller
Input Device	Cisco TelePresence Touch	Cisco TelePresence Touch	Cisco TelePresence Touch	Cisco TelePresence Touch



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