



TSG 8841 Cisco® IP Phone

TSG, TEMPEST/TSG, Modified COTS, & Cisco+ models available

Product Data

Model - EL1-8841
EM-8841

API's version of the Cisco® 8841 phone is TSG certified as compliant with CNSI 5001 and provides the critical security features required for both unclassified and classified VoIP telephony systems. API's TSG approved 8841 VoIP phones cost effectively provide the latest in Cisco® technology with API security technology. API's 8841 VoIP phones feature Energy Wise™ technology, wide band audio, WVGA color display, five programmable line keys, up to 1 GB LAN and PC connections as well as interoperability with a comprehensive suite of unified communication features supported by Cisco® communication servers. API integrated TSG compliant technology, physical secure hold and mute, and other security technologies mitigate the risks of electronic eavesdropping and cyber compromise. The 8841 is also available in other configurations such as TEMPEST/TSG, Modified COTS, and Cisco+.



EM-8841 only

API's 8841 design uniquely combines TEMPEST and TSG certification with modular security to provide customers the ability to easily configured TEMPEST or TSG models to meet cost and security requirements.



TSG 8841 Cisco® IP Phone

TSG, TEMPEST/TSG, Modified COTS, & Cisco+ models available

Specifications

Model - EL1-8841
EM-8841

Handset

Std. wideband-capable audio or optional Push-to-Talk handset

Speaker phone

Hands free full-duplex speakerphone

Headsets

Analog headsets available with the EM-8841 model only

Ethernet switch

Internal 2-port Cisco Ethernet switch for connection of phone and PC over single line.

Keys

Line keys, soft keys, back and release keys, four-way navigation & and select keys resume, transfer& conference keys, messaging, application, & directory keys. Standard keypad, volume control toggle key, speakerphone, headset.

Dimensions (H x W x D)

9.02 x 10.13 x 1.57 in. (229.1 x 257.34 x 40 mm)

Weight

2.58 lb. (1.17 kg) (with handset)

Temperatures

Operational 32 to 104°F (0 to 40°C)

Non Operational Shock 14 to 140°F (-10 to 60°C)

Humidity

Operating 10 to 90%, noncondensing

Non-operating 10 to 95%

Backlit indicators

Audio path keys select key, line keys & message waiting.

Power

EEE Power over Ethernet class 2; fiber

AC-to-DC (48V) power supply

Cisco Unified Communications Manager

8.5.1, 8.6.2, 9.1.2, 10.0 and later

Network features

Session Initiation Protocol (SIP) for signaling, Session Description Protocol (SDP), IPv4 and IPv6, User Datagram Protocol (UDP), Dynamic Host Configuration Protocol (DHCP), Gratuitous Address Resolution Protocol (GARP), Domain Name System (DNS), Trivial File Transfer Protocol (TFTP), Secure Hypertext Transfer Protocol (HTTPS), VLAN, Real-Time Transport Protocol (RTP), Peer-to-peer Distribution Protocol (PPDP), Cisco Discovery Protocol, LLDP/LLDP-MED, Switch speed auto-negotiation

Security features

Secure boot, secure credential storage, device authentication, configuration file authentication and encryption, image authentication, random bit generation, hardware cryptographic acceleration, Certificate Authority Proxy Function(CAPF), Manufacturer-Installed Certificates (MIC), Locally Significant Certificates (LSC), Ethernet 802.1x supplicant options: Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST) & Extensible Authentication Protocol-Transport Layer Security (EAP-TLS), Signaling authentication & encryption using TLS, Media authentication & encryption using SRTP, HTTPS for client & server, Secure Shell (SSH) Protocol server, SSL-based VPN client

Warranty

1-year on parts and labor

Advanced Programs, Inc. is an NSA-certified test services facility and an NSA-certified TEMPEST manufacturing facility.

Advanced Programs, Inc. is an ISO 9001:2015 certified facility - Cert. #US-2683d-05

Technical Specifications are subject to change without notice.

Export of TEMPEST configurations are subject to the ITAR. Export of TSG configurations are subject to the EAR.

E & OE - 11/19

TEMPEST/TSG	Model Numbers	Description	TSG Accreditation Number
	EL1-8841-06L1	8841 IP TEMPEST NTSWG PHONE, 1 FIBER ST 100MB, W/PWR SUP,NO SPKR PHONE	TSG-A-21-2016
	EL1-8841-07L1	8841 IP TEMPEST NTSWG PHONE, 2 FIBER ST 100MB, W/PWR SUP,NO SPKR PHONE	TSG-A-22-2016
	EL1-8841-08L1	8841 IP TEMPEST NTSWG PHONE, 1 FIBER ST 1GB, W/PWR SUP,NO SPKR PHONE	TSG-A-23-2016
	EL1-8841-09L1	8841 IP TEMPEST NTSWG PHONE, 2 FIBER ST 1GB, W/PWR SUP,NO SPKR PHONE	TSG-A-24-2016
TSG	Model Numbers	Description	TSG Accreditation Number
	EM-8841-06	8841 IP NTSWG PHONE, 2-PORT 10/100/1000-T POE (Class B)	TSG-B-11-2015
	EM-8841-06S	8841 IP NTSWG PHONE, 2-PORT 10/100/1000-T POE, NO MIC (Class B)	TSG-B-01-2016
	EM-8841-06M	8841 IP NTSWG PHONE, SOFT MUTE, 2-PORT 10/100/1000BASE-T ETHERNET RJ45 POE (Class B)	TSG-B-13-2015
	EM-8841-07	8841 IP NTSWG PHONE, 2-PORT FIBER SC 100MB, W/PWR SUP (Class A)	TSG-A-01-2015
	EM-8841-07M	8841 IP NTSWG PHONE, SOFT MUTE, 2-PORT FIBER SC 100MB, POWER BRICK (Class A)	TSG-A-10-2016
	EM-8841-08	8841 IP NTSWG PHONE, 2-PORT FIBER LC 1G, W/PWR SUP (Class A)	TSG-A-03-2015
	EM-8841-09	8841 IP NTSWG PHONE, 1-PORT FIBER SC 100MB, W/PWR SUP (Class A)	TSG-A-04-2015
	EM-8841-09M	8841 IP NTSWG PHONE, 1-PORT FIBER SC 100MB, W/PWR SUP (Class A), MUTE	TSG-A-02-2016
	EM-8841-10	8841 IP NTSWG PHONE, 1-PORT FIBER LC 1G, W/PWR SUP (Class A)	TSG-A-05-2015
	EM-8841-11	8841 IP NTSWG PHONE, 2-PORT 10/100/1000-T POE, NO SPKR PHONE (Class B)	TSG-B-12-2015
	EM-8841-12	8841 IP NTSWG PHONE, 2-PORT FIBER SC 100MB, W/PWR SUP, NO SPKR PHONE (Class A)	TSG-A-02-2015
	EM-8841-13	8841 IP NTSWG PHONE, 2-PORT 10/100-T POE (Class A)	TSG-A-11-2017
	EM-8841-13M	8841 IP NTSWG PHONE, 2-PORT 10/100-T POE, W/MUTE BUT (Class A)	TSG-A-09-2017
	EM-8841-13MS	8841 IP NTSWG PHONE, 2-PORT 10/100-T POE, W/MUTE BUT, NO MIC (Class A)	TSG-A-43-2018
	EM-8841-14	8841 IP NTSWG PHONE, 2-PORT 10/100/1000 BASE-T ETHERNET RJ45 POE,NO SPKR PHONE, NO MIC (Class A)	TSG-A-10-2017
	EM-8841-15	8841 IP NTSWG PHONE, 2-PORT FIBER LC 1G, W/PWR SUP, NO SPKR PHONE (Class A)	TSG-A-03-2017
TEMPEST	Model Numbers	Description	
	EL1-8841-01L1	8841 IP TEMPEST PHONE, 2 FIBER SC 100MB, W/PWR SUP,NO SPKR PHONE	
	EL1-8841-02L1	8841 IP TEMPEST PHONE, 2 FIBER LC 1G, W/PWR SUP,NO SPKR PHONE	
	EL1-8841-03L1	8841 IP TEMPEST PHONE, 1 FIBER SC 100MB, W/PWR SUP,NO SPKR PHONE	
	EL1-8841-04L1	8841 IP TEMPEST PHONE, 1 FIBER LC 1G, W/PWR SUP,NO SPKR PHONE	
Mod. COTS	Model Numbers	Description	
	EM-8841-01	8841 IP PHONE, 2-PORT 10/100/1000-T POE	
	EM-8841-02	8841 IP PHONE, 2-PORT FIBER SC 100MB, W/PWR SUP	
	EM-8841-03	8841 IP PHONE, 2-PORT FIBER LC 1G, W/PWR SUP	
	EM-8841-04	8841 IP PHONE, 1-PORT FIBER SC 100MB, W/PWR SUP	
	EM-8841-05	8841 IP PHONE, 1-PORT FIBER LC 1G, W/PWR SUP	

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8865 Cisco® IP Video Phone

TSG and TEMPEST models available

Product Data

Model - EL1-8865
EM-8865

Providing the critical security features required to secure high-fidelity voice and HD video communications, API's 8865 VoIP phones are TSG and TEMPEST certified. Compliant with CNSSI 5001 defined TSG requirements and NSTISSAM TEMPEST/192 Level I standards, these phones provide the latest in Cisco® technology. They are offered with optional line expansion capability via a securely integrated key expansion module (KEM). The IP Phone 8865 combines an attractive new ergonomic design with 720p HD video and wideband audio for crystal clear voice communications, encrypted voice communications for enhanced security and access to a comprehensive suite of unified communications features. API's 8865 VoIP phones feature five programmable line keys (expandable with optional KEM, speaker phone and KEM are available only on non-TEMPEST configurations), 5 inch high resolution (800 x 480) widescreen VGA backlit color display, a switch that enables phone only mode, built-in copper (non-TEMPEST version only) or fiber network interface that is also available in switched dual-port for both network connection and your PC connection, optional colored bezels for classification levels, optional Push-to-Talk handsets and wall mount.



To fully optimize security, functionality and cost, API has leveraged its Solution Technology Integrator partnership with Cisco® as well as actively sought Intel/Defense customer input to our design and build. Wireless capability on all API 8865 models has been removed and a secured KEM port precludes user access on models not configured with an integrated KEM module. Available in a variety of secure models with easily configurable accessories, API's 8865 delivers the latest in secure VOIP telephony and secure HD video communications.



8865 Cisco® IP Video Phone

TSG and TEMPEST models available

Specifications

Model - EL1-8865
EM-8865

Handset

Std. wideband-capable audio or optional Push-to-Talk handset

Graphical Display

The 800 × 480, 24-bit color, 5-in. WVGA display provides scrollable access to calling features and text-based XML applications

Speaker phone

The full-duplex speakerphone gives you flexibility in placing and receiving calls with hands free. For added security, the audible dual tone multi-frequency (DTMF) tones are masked when the speakerphone mode is used. (Speaker phone is available only on non-TEMPEST configurations.)

Headsets

Analog headsets with microphone

Ethernet switch

Internal 2-port Cisco Ethernet switch for connection of phone and PC over single line.

Keys

Line keys, soft keys, back and release keys, four-way navigation and select keys, secure hold/resume, transfer, conference keys, messaging, application, directory keys. Standard keypad, volume control toggle key, headset, and mute keys

Dimensions (H x W x D)

9.01 x 10.13 x 3.87 in. (228.9 x 257.34 x 98.3 mm)

Weight

3.4 lb. (1.54 kg) (with handset)

Temperatures

Operational 32 to 104°F (0 to 40°C)

Non Operational Shock 14 to 140°F (-10 to 60°C)

Humidity

Operating 10 to 90%, noncondensing

Non-operating 10 to 95%

Backlit indicators

The phone supports backlit indicators for the audio path keys (Handset, Headset, and Speakerphone), select key, line keys, and message waiting

Key Expansion Module KEM

Optional key expansion module supporting up to 36 additional line appearances. (KEM is available only on non-TEMPEST configurations.)

Power

IEEE Power over Ethernet class 4 OR optional power cube is used as an AC-to-DC (48V) power supply for non-PoE deployments.

Cisco Unified Communications Manager

8.5.1, 8.6.2, 9.1.2, 10.5.2, 11.0 and later

Network features

Session Initiation Protocol (SIP) for signaling, Session Description Protocol (SDP), IPv4 and IPv6, User Datagram Protocol (UDP), Dynamic Host Configuration Protocol (DHCP), Gratuitous Address Resolution Protocol (GARP), Domain Name System (DNS), Trivial File Transfer Protocol (TFTP), Secure Hypertext Transfer Protocol (HTTPS), VLAN, Real-Time Transport Protocol (RTP), Peer-to-peer Distribution Protocol (PPDP), Cisco Discovery Protocol, LLDP/LLDP-MED), Switch speed auto-negotiation

Security features

Secure boot, secure credential storage, device authentication, configuration file authentication and encryption, image authentication, random bit generation, hardware cryptographic acceleration, Certificate Authority Proxy Function(CAPF), Manufacturer-Installed Certificates (MIC), Locally Significant Certificates (LSC), Ethernet 802.1x supplicant options: Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST) & Extensible Authentication Protocol-Transport Layer Security (EAP-TLS), Signaling authentication & encryption using TLS, Media authentication & encryption using SRTP, HTTPS for client & server, Secure Shell (SSH) Protocol server, SSL-based VPN client

Warranty

1-year on parts and labor

Advanced Programs, Inc. is an NSA-certified test services facilities and an NSA-certified TEMPEST manufacturing facilities.

Advanced Programs, Inc. is an ISO 9001:2015 certified facility

Cert. #US-2683d-05

Technical Specifications are subject to change without notice. Export of TEMPEST configurations are subject to the ITAR. Export of TSG configurations are subject to the EAR. E & OE - 1/21

Model Numbers	Description	TSG Accreditation Number
TEMPEST/TSG		
EL1-8865-01L1	8865NR VOIP TEMPEST NTSWG PHONE, 1 FIBER SC 100MB, NO SPKR PHONE (Class A)	TSG-A-45-2018
EL1-8865-02L1	8865NR VOIP TEMPEST NTSWG PHONE, 2 FIBER SC 100MB, NO SPKR PHONE (Class A)	TSG-A-46-2018
EL1-8865-03L1	8865NR VOIP TEMPEST NTSWG PHONE, 1 FIBER LC 1G, NO SPKR PHONE (Class A)	TSG-A-47-2018
EL1-8865-04L1	8865NR VOIP TEMPEST NTSWG PHONE, 2 FIBER LC 1G, NO SPKR PHONE (Class A)	TSG-A-48-2018
TSG		
EM-8865-07	8865NR VOIP NTSWG VIDEO PHONE, 2 FIBER SC 100MB, W/PWR SUP (Class A)	TSG-A-15-2018
EM-8865-07M	8865NR VOIP NTSWG VIDEO PHONE, 2 FIBER SC 100MB, W/PWR SUP, MUTE (Class A)	TSG-A-16-2018
EM-8865-08M	8865NR VOIP NTSWG VIDEO PHONE, 2 FIBER LC 1G, W/PWR SUP, MUTE (Class A)	TSG-A-14-2018
EM-8865-09	8865NR VOIP NTSWG VIDEO PHONE, 1 FIBER SC 100MB, W/PWR SUP (Class A)	TSG-A-17-2018
EM-8865-09M	8865NR VOIP NTSWG VIDEO PHONE, 1 FIBER SC 100MB, W/PWR SUP, MUTE (Class A)	TSG-A-18-2018
EM-8865-09NB	8865NR VOIP NTSWG VIDEO PHONE, 1 100MB SC, NO SPKR PHONE (Class A)	TSG-A-19-2018
EM-8865-09S	8865NR VOIP NTSWG VIDEO PHONE, 1 100MB SC, NO BASE MIC (Class A)	TSG-A-20-2018
EM-8865-10M	8865NR VOIP NTSWG VIDEO PHONE, 1 FIBER LC 1G, W/PWR SUP MUTE (Class A)	TSG-A-13-2018
EM-8865-13	8865NR VOIP NTSWG PHONE, 2 10/100-T, POE (Class A)	TSG-A-21-2018
EM-8865-13M	8865NR VOIP NTSWG PHONE, 2 10/100-T, POE W/MUTE (Class A)	TSG-A-22-2018
EM-8865-13S	8865NR VOIP NTSWG PHONE, 2 10/100-T, POE NO BASE MIC (Class A)	TSG-A-23-2018
EM-8865-14	8865NR VOIP NTSWG PHONE, 2 10/100-T, POE NO SPKR PHONE (Class A)	TSG-A-24-2018

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TSG 8831 Cisco® IP Conference Phone

TSG, Modified COTS, & Cisco+ models available

Product Data
Model - EM-8831

FEATURES & BENEFITS

- Available with copper or fiber network interface and powered by either Class 3 POE or an individual Cisco Power Cube 3 supply.
- Supported on Cisco® Unified Communications Manager and Business Edition systems, the IP Conference Phone EM-8831 delivers a more productive, acoustically pleasing, and secure communications experience across sites and participants
- Superior wideband acoustics with the first two-element speaker in a conference phone, allows the phone to capture the full voice spectrum without having to compromise with a single-element speaker
- Security is enhanced with device authentication and signaling encryption using Transport Layer Security (TLS) with Advanced Encryption Standard 128 (AES-128). Media encryption using Secure Real-Time Transport Protocol (SRTP) is also secure with AES-128.
- Removal of wireless capabilities by API, eliminates vulnerabilities associated with wireless communications.
- Easily viewed 3.25 x 1.5 in. (8.26 x 3.81 cm) back lit greyscale LCD display 396 x 162 pixels



API's modified Cisco® 8831 IP Phone (API EM-8831), is a secure unified IP conference phone that is available in Modified COTS, TSG, and Cisco+ configurations. The API Modified COTS EM-8831-03 is designed to have the wireless removed. For those looking for a higher level of security, our TSG model is engineered and designed to be TSG certified as compliant with CNSSI 5001 defined requirements. Retaining Cisco's enhanced people-centric communications features that combine superior high-definition (HD) audio performance and 360-degree coverage, API's EM-8831 is a simple and scalable solution that meets the requirements for unclassified VoIP conference systems for government users where sensitive and classified information is processed, transmitted, or discussed.

Integrating modifications that electrically isolate speakers and microphones when the conference phone is idle, the API EM-8831 precludes on hook adversarial eavesdropping. Illuminated lights on the conference phone base visually notify participants whenever the

security countermeasures are not in effect. The Cisco® physical hold buttons and soft hold features are removed and replaced with a secure hold button that activates the security measures to place an active call on secure hold. As the industry's first conference phone designed to meet CNSSI 5001 security requirements. The API EM-8831 features a two position secure switch that must be physically positioned to answer or initiate a call. A detached wired control panel with dial pad allows users to easily set up calls and see the display.



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TSG 8831 Cisco® IP Conference Phone

TSG, Modified COTS, & Cisco+ models available

Specifications

Model - EM-8831

Security Certification

TSG certified as compliant with CNSSI 5001

Phone Configuration

Single conference phone with option to add dual wired microphones

Signaling Protocol: Session Initiation Protocol (SIP)

Network Interfaces: 10/100 T Base Ethernet

Codec Support

G.711a, G.711µ, G.729a, G.729ab, G.722, and iLBC audio compression codecs

Speaker phone

Hands free full-duplex dual element speakerphone with automatic gain control, comfort-noise generation, silence suppression, voice activity detection, echo suppression, and dynamic noise reduction

Volume Output: 92-dB SPL peak with volume control

LCD Display

3.25 x 1.5 in. (8.26 x 3.81 cm); greyscale 396 x 162 pixels

Keys

Hard call hold buttons (base and wired microphones)
Standard dial key pad

Switch Hook Control

Two position mechanical switch providing switch hook function

Software Security

Device authentication through 802.1.x supplicant (TLS) and SRTP. AES 128 encryption

Cisco Unified Communications Manager

8.5.1, 8.6.2, 9.1.2, 10.0 and later

Dimensions (H x W x D)

10.38 x 10.38 x 3.5 in. (26.35x 26.35 x 8.89 cm)

Weight: 4.5 lb. (2.0 kg)

Temperatures

Operational: 2 to 104°F (0 to 40°C)
Non Operational: Shock 14 to 140°F (-10 to 60°C)

Humidity

Operating: 0 to 90%, noncondensing
Non-operating: 10 to 95%

Power

IEEE 802.3af POE (Class 3 device) or AC-to-DC (48VDC)
Cisco Unified IP Phone Power Supply (Cube 3)

Warranty

1-year on parts and labor

Advanced Programs, Inc. is an NSA-certified test services facility and an NSAcertified TEMPEST manufacturing facility.

Advanced Programs, Inc. is an ISO 9001:2015 certified facility - Cert. #US-2683d-05

Technical Specifications are subject to change without notice.
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E & OE - 7/2019

Model Numbers	Description	TSG Accreditation Number
TSG		
EM-8831-01	8831 IP CONF PHONE, 10/100 POE COTS	N/A
EM-8831-03	8831 IP CONF PHONE, 10/100 POE, NON-DECT	N/A
EM-8831-06	8831 IP NTSWG CONF PHONE, 10/100 POE (CLASS B)	TSG-B-28-2016
EM-8831-06M	8831 IP NTSWG CONF PHONE, 10/100 POE (CLASS B) W/MUTE	TSG-B-29-2016
EM-8831-09	8831 IP NTSWG CONF PHONE, 100MB SC FIBER (CLASS A), W/PWR SUP	TSG-A-13-2017
EM-8831-09M	8831 IP NTSWG CONF PHONE, 100MB SC FIBER (CLASS A), PWR SUP, W/MUTE	TSG-A-14-2017
EM-8831-13	8831 IP NTSWG CONF PHONE, 10/100 POE (CLASS A)	TSG-A-15-2017
EM-8831-13M	8831 IP NTSWG CONF PHONE, 10/100 POE (CLASS A) W/MUTE	TSG-A-16-2017

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TSG 8851 Cisco® IP Phone

TSG, Modified COTS, & Cisco⁺ models available

Product Data

Model - EM-8851
EM-8851-KEM

Providing the critical security features required to secure voice communications, API's 8851 VoIP phones are TSG certified as compliant with CNSSI 5001 defined requirements and provide the latest in Cisco® technology with line expansion capability via a securely integrated key expansion module (KEM). Fully operational as a secure end point within a Cisco® Unified Communication Enterprise, API's 8851 VoIP phones features Energy Wise™ technology, wide band crystal clear audio, WVGA color display, five programmable line keys, up to 1 GB LAN and PC connections as well as interoperability with a comprehensive suite of Unified Communication features support by Cisco® communication servers. API integrated CNSSI 5001compliant technology, physical secure hold and mute, secured KEM access port and other security technology mitigate the risks of electronic eavesdropping and cyber compromise. The 8851 is also available in other configurations such as Modified COTS, and Cisco⁺.



To fully optimize security, functionality and cost, AP leveraged its Solution Technology Integrator partnership with Cisco® as well as actively sought Intel/Defense customer input to our design and build. Bluetooth wireless capability on all EM-8851 models has been removed and a secured KEM port precludes user access on models not configured with an integrated KEM module. Available in a variety of secure models with easily configurable accessories, API's 8851 delivers the latest in secure VOIP telephony and secure communications.



TSG 8851 Cisco® IP Phone

TSG, Modified COTS, & Cisco+ models available

Specifications

Model - EM-8851
EM-8851-KEM

KEM

Key expansion module option supporting up to 36 additional line appearances.

Handset

Std. wideband-capable audio or optional Push-to-Talk handset

Speaker phone

Hands free full-duplex speakerphone

Headsets

Analog headsets

Ethernet switch

Internal 2-port Cisco Ethernet switch for connection of phone and PC over single line.

Keys

Line keys, soft keys, back and release keys, four-way navigation & and select keys resume, transfer& conference keys, messaging, application, & directory keys. Standard keypad, volume control toggle key, speakerphone, headset.

Dimensions (H x W x D)

9.02 x 10.13 x 1.57 in. (229.1 x 257.34 x 40 mm)

Weight

2.58 lb. (1.17 kg) (with handset)

Temperatures

Operational 32 to 104°F (0 to 40°C)

Non Operational Shock 14 to 140°F (-10 to 60°C)

Humidity

Operating 10 to 90%, noncondensing

Non-operating 10 to 95%

Backlit indicators

Audio path keys select key, line keys & message waiting.

Power

EEE Power over Ethernet class 2; fiber

AC-to-DC (48V) power supply

Cisco Unified Communications Manager

8.5.1, 8.6.2, 9.1.2, 10.0 and later

Network features

Session Initiation Protocol (SIP) for signaling, Session Description Protocol (SDP), IPv4 and IPv6, User Datagram Protocol (UDP) , Dynamic Host Configuration Protocol (DJCP) Gratuitous Address Resolution Protocol (GARP), Domain Name System (DNS), Trivial File Transfer Protocol (TFTP), Secure Hypertext Transfer Protocol (HTTPS), VLAN, Real-Time Transport Protocol (RTP), Peer-to-peer Distribution Protocol (PPDP), Cisco Discovery Protocol, LLDP/LLDP-MED), Switch speed auto-negotiation

Security features

Secure boot, secure credential storage, device authentication, configuration file authentication and encryption, image authentication, random bit generation, hardware cryptographic acceleration, Certificate Authority Proxy Function(CAPF), Manufacturer-Installed Certificates (MIC), Locally Significant Certificates (LSC), Ethernet 802.1x supplicant options: Extensible Authentication Protocol-Flexible Authentication via Secure Tunneling (EAP-FAST) & Extensible Authentication Protocol-Transport Layer Security (EAP-TLS), Signaling authentication & encryption using TLS, Media authentication & encryption using SRTP, HTTPS for client & server, Secure Shell (SSH) Protocol server, SSL-based VPN client

Warranty

1-year on parts and labor

Advanced Programs, Inc. is an NSA-certified test services facility and an NSA-certified TEMPEST manufacturing facility.

Advanced Programs, Inc. is an ISO 9001:2015 certified facility - Cert. #US-2683d-05

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E & OE - 7/19

Model Numbers	Description	TSG Accreditation Number
TSG		
EM-8851-06	8851 IP NTSWG PHONE, 2-PORT 10/100/1000-T POE (CLASS B)	TSG-B-16-2015
EM-8851-06M	8851 IP NTSWG PHONE, 2-PORT 10/100/1000BASE-T ETHERNET RJ45 POE(CLASS B)	TSG-B-18-2015
EM-8851-06S	8851 IP NTSWG PHONE, SOFT MUTE, 2-PORT 10/100/1000BASE-T ETHERNET, RJ45 POE, NO SP (CLASS B)	TSG-B-09-2016
EM-8851-07	8851 IP NTSWG PHONE, 2-PORT FIBER SC 100MB, W/PWR SUP (CLASS A)	TSG-A-06-2015
EM-8851-07M	8851 IP NTSWG PHONE, FIBER INTERFACE, 2-PORT FIBER SC 100MB, PB (CLASS A)	TSG-A-14-2015
EM-8851-08	8851 IP NTSWG PHONE, 2-PORT FIBER LC 1G, W/PWR SUP (CLASS A)	TSG-A-08-2015
EM-8851-09	8851 IP NTSWG PHONE, 1-PORT FIBER SC 100MB, W/PWR SUP (CLASS A)	TSG-A-09-2015
EM-8851-09M	8851 IP NTSWG PHONE, 1-PORT FIBER SC 100MB, W/PWR SUP W/MUTE (CLASS A)	TSG-A-20-2015
EM-8851-10	8851 IP NTSWG PHONE, 1-PORT FIBER LC 1G, W/PWR SUP (CLASS A)	TSG-A-10-2015
EM-8851-11	8851 IP NTSWG PHONE, 2-PORT 10/100/1000BASE-T ETHERNET RJ45 POE, SPKR Disabled, MIC REMOVED	TSG-B-19-2015
EM-8851-12	8851 IP NTSWG PHONE, 2-PORT FIBER SC 100MB, W/PWR SUP, NO SPKR PHONE (CLASS A)	TSG-A-07-2015
EM-8851-13MX	8851 IP NTSWG PHONE, 2-PORT 10/100-T POE W/MUTE (CLASS A)	TSG-A-32-2016
EM-8851-13SX	8851 IP NTSWG PHONE, 2-PORT 10/100-T POE, NO BASE MIC (CLASS A)	TSG-A-33-2016
EM-8851-13X	8851 IP NTSWG PHONE, 2-PORT 10/100-T POE (CLASS A)	TSG-A-35-2016
EM-8851-14X	8851 IP NTSWG PHONE, 2-PORT 10/100-T POE, NO SPKR PHONE (CLASS A)	TSG-A-34-2016
EM-8851-15	8851 IP NTSWG PHONE, 2-PORT FIBER LC 1G, W/PWR SUP, NO SPKR PHONE (CLASS A)	TSG-A-04-2017
Modified COTS		
EM-8851-01	8851 IP PHONE, 2-PORT 10/100/1000-T POE	
EM-8851-02	8851 IP PHONE, 2-PORT FIBER SC 100MB, W/PWR SUP	
EM-8851-03	8851 IP PHONE, 2-PORT FIBER LC 1G W/PWR SUP	
EM-8851-04	8851 IP PHONE, 1-PORT FIBER SC 100MB, W/PWR SUP	
EM-8851-05	8851 IP PHONE, 1-PORT FIBER LC 1G, W/PWR SUP	

If a custom configuration of our 8851 series IP phone is needed, please contact your API account manager at 410-312-5800 to discuss specific configuration requirements.

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