



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.



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Specifications

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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 9001:2008 certified facility - Cert. #US-2683c

Technical Specifications are subject to change without notice. U.S.A. export controls apply to TEMPEST products only.

E & OE - 3/22/17

Configurations

TSG

Model Numbers	Description	TSG Accreditation Number
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-8851-09S	8851 IP NTSWG PHONE, 1-PORT FIBER SC 100MB, W/PWR SUP (CLASS A)	TSG-A-09-2016
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-8851-14X	8851 IP NTSWG PHONE, 2-PORT 10/100-T POE, NO SPKR PHONE (CLASS A)	TSG-A-34-2016
EM-8851-13X	8851 IP NTSWG PHONE, 2-PORT 10/100-T POE (CLASS A)	TSG-A-35-2016
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

Model Numbers	Description
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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