# Avaya 1140E IP Deskphone

Professional-level IP Deskphone supports a new dimension in desktop communications features and application presentation.

The award-winning Avaya 1140E IP Deskphone with Gigabit Ethernet brings a new dimension in communication features and capabilities to the professional IP Deskphone. Ideally suited for managers and knowledge workers, the multi-line Avaya 1140E IP Deskphone supports standards-based Session Initiation Protocol (SIP), delivering choice to customers in deployment options with support on Avaya or third-party Communication Servers. The 1140E IP Deskphone also enables presentation of converged voice and data applications, leveraging its integrated high-resolution, graphical eight-level grayscale pixel-based display. Application navigation is flexible and powerful with the 1140E IP Deskphone's integrated USB port, supporting both standard USB mice and keyboards. Combined with rich telephony feature sets as delivered from Avaya Communication Servers, deployment of the Avaya 1140E IP Deskphone enhances personal productivity with delivery of a superior user experience for both today's and tomorrow's communications needs.

## Key Features and Customer Benefits

- Multi-line IP Deskphone supports up to 12 line/programmable feature keys[1], 14 fixed keys and four context sensitive soft keys[2]

- High-resolution, fully-backlit, graphical, eight-level grayscale, 240 x 160 pixel display with anti-glare screen, combined with a flexible five-position adjustable footstand, optimizes viewing in varied lighting conditions

- Advanced collaborative communications support with graphical presence notification and secure instant messaging (SIP firmware only)[3]

- Four-way navigation cluster with Enter key provides easy navigation when using features

- Integrated USB port powers standard USB mice and keyboards, providing input and navigation options for application interaction and simpler menu selection

- Integrated *Bluetooth*® 1.2 audio gateway supports *Bluetooth*® headsets, boosting productivity with greater freedom at the desktop

- Integrated IEEE10/100/1000 Base-T Ethernet switch with LAN and PC ports reduces costs, enabling a single cable drop to support both the phone and a collocated PC

Avaya 1140E IP Deskphone

- Supports Gigabit Ethernet, positioning the phone's internal switch to accommodate growing multimedia intensive PC-based applications, thus aligning with investment made in the wiring closet

- Supports 802.3af standard-based PoE or local AC power via a global power supply

- Secured communications with standards-based signaling encryption, media encryption and user-based authentication for network access control

- Supports Unicode for expanded language and complex font presentation on the IP Deskphone display[4]

- Proactive Voice Quality Management (PVQM) for enhanced administration and diagnostics[5]

- Lockable Tools Menu offers local access to configuration, diagnostic and user preference options

- Supports converged (voice and data) applications via External Application Server APIs, to provide productivity enhancing applications and to enrich users' experience with advanced multimedia interaction

- Supports both Avaya Communication Server protocol (UNIStim) and RFC 3261 compliant Session Initiation Protocol (SIP) firmware for business telephony feature integration[6]

- Added convenience and time savings with field-upgradeable software using Trivial File Transfer Protocol (TFTP) or for sites requiring enhanced secure software upgrades: UNIStim File Transfer Protocol (UFTP)[7]

## Special features (SIP software only)

**Presence**

- Supports Presence Notification on phone display
- User Presence Selection

**Instant Messaging**

- Secure Instant Messaging from phone display
- Message Waiting indication of Instant Messages via blue LED illumination
- On/Off automatic pop-up notification of Instant Messages
- Instant Message log access via Expand Key
- Icons for read, unread, replied to Instant Messages
- Special character support for meaningful text entry

**Other**

- Graphical status for calls (calls missed, number for each user)
- Incoming and Outgoing Privacy Settings
- Selectable ringtones (up to five) via .wav file storable on deskphone (administrator provisioned)
- Localized language support (up to five storable on deskphone at one time)

## Avaya 1140E IP Deskphone positions customers to meet both today's and tomorrow's business needs

### Specifications:

**Platform Support**

**Avaya Communication Protocol**

- Avaya Communication Server 1000
- Avaya Media Gateway 1000 B
- Avaya Communication Server 2100
- Avaya Business Communications Manager 50/200/400
- Avaya Survivable Remote Gateway 50/200/400
- Avaya Multimedia Communication Server 5100
- Avaya Aura™ Application Server 5300

**Session Initiation Protocol**

- Avaya Multimedia Communication Server 5100 Rls 3.5 and 4.0
- Avaya Communication Server 2100 Rls SE10
- Avaya Aura™ Application Server 5300 Rls 2.0
- Nortel Communication Server 1500 Rls 1.1 and later*
- Nortel Communication Server 2000 Rls SN09U and later*
- BroadSoft BroadWorks Release 14

*Note: Product Names may change with the future sale of Nortel Heriatge Assets.

### Display

- High-resolution, graphical, eight-level grayscale, monochrome Film Super Twist Nematic (FSTN) Liquid Crystal Display, 240 x 160 pixel, fully bitmapped, fully- backlit, anti-glare screen
- Backlit LCD display with local contrast settings enhances viewing
- Configurable backlight timer extends the quality in display experience with 5, 10, 15, 20 minute, 1 and 2 hour settings; "Sleep never" setting for 24x7 environments
- Supports Unicode for expanded language and complex font presentation on the IP Deskphone display[8]

### IP Phone footstand adjustments

- Desktop viewing adjustments: 32.5, 40, 47.5 and 55 degree angles
- Wall mount angle: minus 5 degrees

### Fixed keys and Soft keys

- Fourteen fixed keys (Handsfree, Headset, Volume Up and Down, Mute, Hold, Goodbye, Directory, Inbox/Message, Outbox/Shift, Quit, Copy, Services and Expand)
- Four context-sensitive soft keys for easy to use navigation[9]

### Navigation cluster

- Four-way navigation cluster (left, right, up, down arrows) plus Enter key

### USB port

- Single integrated USB port for standard USB mice, keyboards, keyboard emulation devices, powered hubs, USB Flash memory Devices[10]

### Bluetooth® Wireless Technology

- Integrated Bluetooth® 1.2 audio gateway for Bluetooth® headset profiles
- Supports up to 10 m/33 ft. range from gateway (Bluetooth® power class 2)

### Expansion Module

- Supports Expansion Module for Avaya 1100 Series IP Deskphones (18-button)[11]

### Call Recording

- Supports transmission of duplicate media streams with Avaya Call Recording and Quality Monitoring (CRQM)[12]

### User Selectable Ringtones

### Headset support

- Supports third-party wired and wireless headsets

### Languages supported

- Language support is platform and protocol dependent. Consult platform documentation of choice for further details

### Administration and Security

- Static and Full Dynamic Host Control Protocol (Full DHCP factory default)
- 802.1x and Extensible Authentication Protocol (EAP-MD5) for network authentication and access control

## Avaya 1140E IP Deskphone positions customers to meet both today's and tomorrow's business needs (continued)

### Administration and Security (continued)

- Secure signaling using standards-based DTLS[13]

- Media path encryption with RFC 3711 compliant Secure Real-time Protocol (sRTP) pre-shared key and public key infrastructure[14]

- 802.1ab Link Layer Discovery Protocol for network auto-discovery and inventory management

- Proactive Voice Quality Management (PVQM) for enhanced administration and diagnostics[15]

### Dimensions and Weight (approximate)

- Size (W x D x H)
  – 7.9 in x 7.4 in x 8.1 in/200mm x 188mm x 207mm — 55 degree footstand desktop configuration
  – 7.9 in x 8.7 in x 6.3 in/200mm x 191mm x 163mm — 32.5 degree footstand desktop configuration
  – 7.9 in x 8.6 in x 4.0 in/200mm x 220mm x 101mm — minus 5 degree footstand desktop Configuration

- Weight (phone, handset, and handset cord)
  – 2.47 lbs/1.12 kg

### Color

- Graphite with silver metallic bezel finish

### Connectivity/data rates

- Integrated 10/100/1000 Base-T Auto-Sensing Ethernet switch for shared PC access (one LAN port and one PC port) supports switching of PC traffic through IP Phone 1140E

- Manually configurable for 10 and 100 Mbps speeds when used with Ethernet Switches which do not support auto-sensing

- Minimum Category 5e cabling required for Gigabit Ethernet deployment (Category 5e cable included as standard)

### Power

- Supports IEEE 802.3af Power over Ethernet

- Power dissipation: IEEE Power Class 2: 4.2 watts normal, 6.5 watts peak

- Optionally available AC global power supply (90-260 VAC, 50/60Hz global power supplydelivers 48V DC @ 520mA max)

- Global power supply also requires AC power cable (country specific standard IEC) — orderable separately

### Protocols

- E.164 dialing

- SIP Protocols:
  – **RFC2327** — SDP: Session Description Protocol
  – **RFC2617** — HTTP Authentication: Basic and Digest Access Authentication
  – **RFC2976** — The SIP INFO Method
  – **RFC3108** — Conventions for the use of Session Description Protocol: ATM Bearer Connections
  – **RFC3204** — MIME Media Types for ISUP and QSIG Objects
  – **RFC3261** — Session Initiation Protocol (SIP)
  – **RFC3262** — Reliability of Provisional Responses in the Session Initiation Protocol
  – **RFC3263** — Session Initiation Protocol (SIP): Locating SIP Servers
  – **RFC3264** — An Offer/Answer Model with Session Initiation Protocol (SIP)
  – **RFC3265** — Session Initiation Protocol: Specific Event Notification
  – **RFC3311** — Session Initiation Protocol (SIP) UPDATE Method
  – **RFC3313** — Private Session Initiation Protocol (SIP) Extensions for Media Authorization.
  – **RFC3323** — A Privacy Mechanism for the Session Initiation Protocol
  – **RFC3325** — Private Extensions to the Session Initiation Protocol for Asserted Identity within Trusted Networks
  – **RFC3329** — Security Mechanism Agreement for the Session Initiation Protocol
  – **RFC3361** — Dynamic Configuration Host Protocol (DHCP-for-IPV4) Option for Session Initiation Protocol Servers
  – **RFC3420** — Internet Media Type Message/sipfrag
  – **RFC3428** — Session Initiation Protocol Extension for Instant Messaging
  – **RFC3489** — Simple Traversal of User Datagram Protocol (UDP) Through Network Address Translators
  – **RFC3515** — The Session Initiation Protocol Refer Method
  – **RFC3550** — RTP: A Transport Protocol for Real-Time Applications
  – **RFC3551** — RTP Profile for Audio and Video Conferences with Minimal Control
  – **RFC3605** — Real-Time Control Protocol (RTCP) attribute in Session Description Protocol (SDP)

### Bluetooth®

- USA: FCC Part 15 Wireless Certification

- Canada: IC RSS 210 Wireless Certification

- EN 300 328

- EN 301 489-1/EN 301 489-17

- Japan METI Wireless approval

- Korean Wireless approval

### Audio Quality of Service

- G.711 a-law, G.711 µ-law, G.729a and Annex B, G.722 (SIP software)

- 802.1p/Q, DiffServ and VLAN tagging of telephony LAN port traffic

- Supports echo cancellation and silence suppression

### Operating temperature

- +5°C to +40°C/+40°F to +104°F

### Relative humidity

- 5% to 95% (non-condensing)

### Storage temperature

- -40°C to +70°C/-40° to +158°F

### EMC

- United States: FCC 47 CFR Part 15 Class B

- Canada: ICES-003 Class B

- Australia/New Zealand:
  – AS/NZS 3548 Class B
  – CISPR 22 Class B

- European community:
  – EN55022:1998: A1+A2 (Class B)
  – EN 55024:1998: A1 + A2
  – EN 61000-3-2
  – EN 61000-3-3

- Japan – VCCI

- Korea MIC

- China CCC

| Safety | US/Canada/Australia/ EU Countries |
|---|---|
| • United States: UL 60950-1 1st Edition<br>• Canada: CSA 60950-1-03<br>• European Community: EN 60950-1 +A11<br>• Australia/New Zealand: AS/NZS 60950.1: 2003<br>• Mexico NOM approvals<br>• International: IEC 60950-1 | • US/Canada: Hearing Aid Compatibility (HAC) as per FCC Part 68 and Industry Canada CS-03 Part V<br>• Australia: AS/ACIF 004<br>• Complies with CE Marking Requirements: This device complies with the essential requirements and other relevant provisions of Directive 1999/5/EC<br>• Complies with Reduction of Hazardous Substances (RoHS) – (6 of 6) as part of European Union Environmental Directive<br>• American Disabilities Act (ADA) compliant dialpad |

## Learn More

To learn more about Avaya solutions and products contact your Avaya Account Manager or Avaya Authorized Partner or visit us at: **www.avaya.com**.

[1] Six programmable line/feature keys are supported with 1140E IP Deskphone as the standard offer. Support of seven to twelve programmable line/feature keys requires use of the shift function and is Avaya Communication Server dependent. Consult Avaya server documentation of choice for support details.

[2] Context-sensitive soft label keys are Avaya Communication Server/minimum release dependent. Consult Avaya server documentation of choice for further support details.

[3] SIP Firmware is supported on selected Avaya and third-party communication servers. See specification details for a listing of supported servers.

[4] Unicode support is on Avaya Communication Server protocol only and is Avaya Communication Server/minimum release dependent. Consult Avaya server documentation of choice for support details.

[5] Avaya Communication Server protocol only. Consult Avaya server documentation of choice for support details.

[6] SIP Firmware is available via factory installation or via subsequent firmware migration.

[7] UFTP is Avaya Communication Server/minimum release dependent. Consult Avaya server documentation of choice for support details.

[8] Unicode supported on Avaya Communication Protocol only and is Avaya Communication Server/minimum release dependent. Consult Avaya server documentation of choice for further support details.

[9] Context-sensitive soft keys are Avaya Communication Server/minimum release dependent. Consult Avaya server documentation of choice for further support details.

[10] USB Flash memory devices are supported with SIP software only at time of writing

[11] Number of Expansion Modules supported is Avaya Communication Server dependent. Consult Avaya server documentation of choice for support details.

[12] Avaya Communication Server Protocol only.

[13] DTLS is supported by CS 1000 Rls 6.0, and requires a DTLS patch. MSC 5100 uses USEC but supports it natively on the IPCM

[14] Public Key Infrastructure is Avaya Communication Server/minimum release dependent. Consult Avaya server documentation of choice for support details.

[15] Avaya Communication Server Protocol only.

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## About Avaya

**Avaya is a global leader in enterprise communications systems. The company provides unified communications, contact centers, and related services directly and through its channel partners to leading businesses and organizations around the world. Enterprises of all sizes depend on Avaya for state-of-the-art communications that improve efficiency, collaboration, customer service and competitiveness. For more information please visit www.avaya.com.**

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