

Telstra IP650

High-performance IP phone with Polycom High Definition (HD) Voice™

To take your business to the next level of communications, you need the right tools for the job. Telstra IP Telephony phones are designed by renowned industry leaders, Polycom, to help you access the latest innovations. Imagine how much more productive and efficient your business could be with the revolutionary voice quality of Polycom HD Voice handsets and advanced feature set of Telstra IP Telephony. With Telstra's world-class Next IP™ network know-how and using advanced Polycom technology, you're ready to create a responsive, productive and cost-effective communications service.

Delivering revolutionary voice quality, an advanced feature set, and the expandability to support IP Expansion Modules

Designed to appeal to both executive users who require advanced features and applications, and telephone attendants who need multiple line support, the Telstra IP650 sets a new standard for high-performance IP phones.

Revolutionary voice quality

The Telstra IP650 is the first Telstra IP phone to use Polycom's revolutionary HD Voice technology to bring lifelike richness and clarity to voice communications. Polycom HD Voice incorporates wideband audio for over twice the voice clarity. Polycom's patented Acoustic Clarity Technology, as well as best-in-class system design, delivers great voice quality and crystal-clear, noise- and echo-free sound, plus best-in-class system design for high-fidelity, faithful voice reproduction.

Enhanced call-handling capabilities

The Telstra IP650 accommodates six lines in standalone mode, and 12 lines as an attendant console, when equipped with IP Expansion Modules. The phone supports shared call appearance, an essential feature for effective phone interaction between executives and their assistants. The Telstra IP650 also features a USB port for future applications.

Expandability

When equipped with up to three Expansion Modules, the Telstra IP650 delivers the advanced call-handling capabilities and enhanced user interface of a high-performance attendant console. Designed to improve productivity of telephone attendants, the Telstra IP attendant console allows effective and efficient management and monitoring of up to 24 simultaneous calls on up to 12 lines.

Intuitive user interface

The Telstra IP650 delivers all of its capabilities through an intuitive user interface, featuring a backlit 320 x 160 graphical greyscale LCD display, easy-to-navigate menu, and a combination of 26 dedicated hard keys and four context-sensitive soft keys for easy access to essential telephony features.

Efficient installation and provisioning

Designed to make installation, configuration, and upgrade as simple and efficient as possible, the Telstra IP650 boasts a two-port ethernet switch and integrated Power over Ethernet circuitry. The Telstra IP650 can be centrally configured and upgraded in the field from Telstra's Hosted CPE Configuration Server.

Benefits

- Revolutionary voice quality
 - HD voice enables lifelike interactivity, richness, and clarity-of-voice communications
- Advanced features and applications
 - USB port for future applications
 - XHTML microbrowser
 - Backlit 320x160 graphical greyscale LCD
 - Integrated PoE support
- Advanced call-handling capabilities
 - Six lines (standalone)/12 lines with Expansion Module(s)
 - Shared call appearance
 - Busy lamp field (BLF) (future capability)
- Expandability – Supports up to three Telstra IP Expansion Modules for an attendant console application
- Proven – Polycom is the leading independent supplier of standards-based IP phones that are fully interoperable with the Telstra IP Telephony platform



Specifications

Lines (direct numbers)

- Up to 6 lines (standalone mode)
- Up to 12 lines with Expansion Module(s)

Telstra IP Expansion Module Support

- Supports up to three Expansion Modules

Display

- 320 x 160 backlit greyscale graphical LCD
- White LED backlight with custom intensity control

Feature keys

- 4 context-sensitive 'soft' keys
- 26 dedicated 'hard' keys
 - 6 line keys with bicolour (red/green) LED
 - 8 feature keys
 - 6 display/menu navigation keys
 - 2 volume control keys
 - Illuminated mute key
 - Illuminated headset key
 - Illuminated hands-free speakerphone key
 - Dedicated hold key

Headset and hearing aid compatibility

- Dedicated RJ-9 headset port
 - Amplified headsets are recommended
- Compliant with ADA Section 508 Recommendations: Subpart B 1194.23 (all)
- Hearing Aid Compatible (HAC) headset for magnetic coupling to approved HAC hearing aids
- Compatibility with commercially available TTY adaptor equipment

Audio features

- HD Voice technology delivers lifelike voice quality for each audio path – the handset, the hands-free speakerphone, and the headset¹
- Full-duplex hands-free speakerphone
 - Type 1 compliant with IEEE 1329 full duplex standards
- Frequency response – 150Hz – 7kHz for handset, headset and hands-free speakerphone modes
- Codecs: G.722 (wideband), G.711 p/A, and G.729A (Annex B)
- Individual volume settings with visual feedback for each audio path
- DTMF tone generation/DTMF event RTP payload
- Low-delay audio packet transmission
- Adaptive jitter buffers Packet loss concealment
- Acoustic echo cancellation
- Background noise suppression

Call-handling features

- Shared call appearance
- Multiple line appearance (one or more line keys can be assigned for each line extension)
- Busy Lamp Field (BLF) (future capability)
- Distinctive incoming-call treatment
- Call timer
- Call transfer, hold, divert (forward), pick-up
- Called, calling, connected party information
- Local three-way conferencing
- One-touch speed dial, redial
- Call waiting
- Remote missed-call notification
- Intercom
- Automatic off-hook call placement
- Do-not-disturb function

Other features

- Universal Serial Bus (USB)
 - Full Host Controller
 - Compliant with OHCI 1.1 specification
 - Support for Full-speed and Low-speed peripherals
 - Type-A receptacle interface
- Local feature-rich GUI
- Time-and-date display
- User-configurable contact directory and call history (missed, placed, and received)
- Unicode UTF-8 character support

Protocol support

- IETF SIP (RFC 3261 and companion RFCs)

Network and provisioning

- Two-port 10/100 Mbps ethernet switch
- Manual or dynamic host configuration protocol (DHCP) network set-up
- Time-and-date synchronisation using SNTP
- Server-based central provisioning from Telstra's Hosted CPE configuration Server for mass deployments
- QoS Support – IEEE 802.1p/Q tagging (VLAN), Layer 3 TOS, and DSCP
- Network Address Translation (NAT) support
 - static
- RTCP support (RFC 1889)
- Event logging
- Local digit map
- Hardware diagnostics
- Status and statistics

Security

- Digest authentication
- Password login
- Support for URL syntax with password for boot server
- Support for signed software executables³

Power

- Built-in, auto-sensing IEEE 802.3af Power over Ethernet
- External Universal AC adaptor (included: 24V DC @ 500mA min)

Approvals

- FCC Part 15 (CFR 47) Class B
- ICES-003 Class B
- EN55022 Class B
- CISPR22 Class B
- AS/NZS CISPR 22 Class B
- VCCI Class B
- EN55024
- EN61000-3-2; EN61000-3-3
- ROHS compliant

Safety

- UL 60950
- CE Mark
- CAN/CSA-C22.2 No. 60950
- EN 60950-1
- IEC 60950-1
- AS/NZS 60950

Operating conditions

- Temperature: +10 to 40° C (+50 to 104° F)
- Relative humidity: 20% to 85%, non-condensing

Storage temperature

- -40 to +70° C (-40 to +160° F)

Telstra IP650 comes with:

- Telstra IP650 console
- Handset with handset cord
- Base stand
- Network (LAN) cable
- Universal power adaptor (including country-specific cord kit)

Size

- 10.5in x 6in x 7.5in x 2.5in (26.5cm x 15cm x 19cm x 6.5cm) (W x H x D x T)

Weight

- Shipping: 2.75lb (1.26kg)
- Box Dimensions/Weight:
 - 12.5in x 13.25in x 3.5in
 - 2045g (for all countries)

Master carton quantity

- Five



Learn more about how Next Dimension Working™ can help you.

Contact your **Telstra Account Executive**
Click telstra.com/enterprise
Call **1300telstra (1300 835 787)**

1. To enjoy the benefits of Polycom HD Voice when using the phone in the headset mode, you must use a wideband headset. Please contact headset manufacturers to identify appropriate headset models.