

CQ450

Our Most Popular Phone,
Designed for Performance
and Affordability



CQ450 FEATURES

- » **Easy to Use Phone Apps**
Using our CQ Device Manager, Clients with NimbusVoice V14 and above based systems can replace complicated phone commands with the click of a button.
- » **Built-in OpenVPN Client**
Our system allows you to tunnel your IP sub-network or virtual ethernet connection, creating secure ethernet bridges to protect your data.
- » **Power Over Ethernet (PoE)**
Industry standard PoE, delivers the energy to run the phone so no power cable or outlets are required.
- » **Full Color LCD Displays**
All CQ Phones come with large full-color displays creating sharp easy to read text and graphics.
- » **Dual Gigabit Ethernet with PoE**
Not every area has a separate drop for both a phone and computer. All of CQ's phones allow for high-speed gigabit pass-through for computer connectivity.
- » **5 Way Conferencing**
Sometimes your conference line may be in use. CQ phones allow up to 5 direct connections, meaning that you can have your conversations when you need them.
- » **USB Support**
The CQ450 phone is equipped with a USB port, allowing you to connect a USB Panic Button.



PHONE FEATURES

- » 8 SIP accounts
- » Call hold, mute, DND
- » One-touch speed dial, hotline
- » Call forward, call waiting, call transfer
- » Redial, call return, auto answer, direct IP call
- » 5-way conferencing
- » Group listening, SMS, emergency call
- » Ring tone selection/provisioning
- » Set date time automatically or manually
- » Dial plan per account
- » RTCP-XR (RFC3611), VQ-RTCPXR (RFC6035)
- » Action URL/URI
- » 10 Multicast Listen Groups
- » Initiate Multicast from Phone to any Multicast Address

VOICE CODECS FEATURES

- » HD voice, HD handset, HD speaker
- » Codecs: iLBC, G.722, G.711(A/μ), Opus G.723, G.729AB, G.726-32
- » DTMF: In-band, RFC 2833, SIP INFO
- » Full-duplex hands-free speakerphone

DIRECTORY

- » Local phonebook up to 1000 entries
- » XML/LDAP remote phonebook
- » Intelligent search method
- » Phonebook search/import/export
- » Call history: all/dialed/received/missed/forwarded/answered elsewhere

IP-PBX FEATURES

- » Busy Lamp Field (BLF)
- » Call park/pickup
- » Music on hold
- » Voicemail
- » Anonymous call/rejection
- » Message waiting indicator
- » Intercom, paging
- » Follow Me
- » DND (Do Not Disturb)
- » Conference rooms
- » Time conditions
- » Queues
- » Presence
- » Queue agents
- » Hot-desking
- » Call Flow
- » Contacts

FEATURE KEYS

- » 8 line keys with LED
- » 8 line keys with four pages for up to 28 digital DSS keys
- » 8 feature keys: voicemail, headset, mute, speaker, transfer, redial, hold, conference
- » 4 context-sensitive “soft” keys
- » 5 navigation keys, volume control keys

MANAGEMENT

- » Configuration: browser/LCD-Menu/auto-provisioning
- » Auto provision via HTTP/HTTPS/FTP/TFTP
- » Auto-provision with PnP
- » Reset to factory, restart, reboot
- » Local tracing log export, system log
- » Phone lock for personal privacy protection
- » Support SNMP & TR-069

DISPLAY AND INDICATOR

- » 2.8” 320x240 pixel color display with backlight
- » 16 Bit Depth Color
- » LED for Call and Message Waiting Indication
- » Dual-color (red or green) Illuminated
- » Wallpaper
- » National Language Selection
- » Intuitive User Interface with Icons and Soft Keys
- » Caller ID with name, number and photo

PHYSICAL FEATURES

- » Stand with two angles at 40° and 55°
- » Built-in USB port
- » Wall mountable
- » External universal AC adapter: Sold Separately
- » AC 100~240V input and DC 5V/1.2A output
- » Power consumption (PSU): 1.6~2.6W
- » Power consumption (PoE): 2.0~3.2W
- » Operating humidity: 10~95%
- » Operating temperature: -10~50°C

DIMENSIONS/PACKING

- » 40° Angle: 196mm (W) x 194mm (D) x 200mm (H)
- » 55° Angle: 196mm (W) x 219mm (D) x 171mm (H)
- » 90° Angle: 196mm (W) x 100mm (D) x 220mm (H)
- » Qty/CTN: 10 Pcs, N.W/CTN: 8.8 kg, G.W/CTN: 11.4 kg
- » Phone Box: 196mm (W) x 35mm (D) x 210mm (H)
- » Carton Size: 470mm (W) x 457mm (D) x 229mm (H)

INTERFACE

- » Dual-port Gigabit Ethernet
- » Power over Ethernet (IEEE 802.3af). class 2
- » 1xRJ9 (4P4C) handset port
- » 1xRJ9 (4P4C) headset port

NETWORK AND SECURITY

- » SIP v1 (RFC2543), v2 (RFC3261)
- » SIP server/proxy redundancy
- » NAT Traversal: STUN mode
- » DHCP/static/PPPoE/IEEE802.1X/open VPN
- » HTTP/HTTPS web server
- » Time and date synchronization by SNTP
- » DNS-NAPTR/DNS-SRV(RFC 3263)
- » QoS: 802.1p/Q tagging (VLAN),
- » Layer 3 ToS DSCP
- » TLS (Transport Layer Security), SRTP, ZRTP
- » HTTPS certificate manager
- » AES encryption for configuration file
- » Digest authentication using MD5/MD5-sess
- » IPv6 supported

LANGUAGES

- » Built-in: English, French, German, Spanish, Portuguese, Russian, Italian, Polish, Turkish, Serbian, Chinese Simplified, Chinese Traditional, Slovenian, Farsi, Slovak and Czech
- » Controlled by PBX: Chinese Simplified, Chinese Traditional, English, French, German, Italian, Polish, Portuguese, Russian, Spanish, Turkish

OPTIONAL ACCESSORIES

- » EHS Headset Adapter
- » External Universal AC Adapter (US, UK, EU): AC 100~240V Input

CERTIFICATIONS

- » CE, FCC, RoHS