

VoIP!Phone™ Q-FONE-DU-X



**IP Phone with built-in 56K modem
for dialing up to ISP for access to the Internet**

**Designed for use with high-speed broadband network or
where broadband network is NOT available**

**Use it with Ecocarrier Q-CallShop managed service for a low-cost setup for a features-rich,
fully automated Call Shop operation (www.qcallshop.com) or**

**with Ecocarrier Globocal service (www.globocal.com) for making global calls as local calls
and International Direct Dial (IDD) capability at extremely low cost**

Other Outstanding Features

- Built-in dual port Ethernet switch for use to connect your PC and Q-FONE-DU-X on the same 10/100 Base-T LAN
- Available in H.323-, SIP-, MGCP- or IAX2-compliant versions for interoperation with H.323/SIP/MGCP-compliant endpoints or softswitches
- Large LCD displays the call status and prompting messages for setup configuration in an intuitive guide
- Proven interoperability with Open H.323 GK, Radvision GK, Cisco IOS, Cisco ATA, Lucent softswitch, Sonus softswitch, Quintum Tenor, Audiocodes, Altigen, etc.
- Configuration via HTTP web browser, advanced configuration by Telnet, and firmware upgrade by FTP/TFTP
- Supports various control protocols: H.323 v4 / MGCP RFC2705&3435 / SIP RFC2543&3261
- Handsfree dialing

Specifications

Hardware

- One PSTN port; built-in V.90 modem RJ11 connector (data rates from 14.4Kbps to 56Kbps)
- Ethernet: dual 10/100 based-T Ethernet, full duplex; RJ45 connector
- LCD: 2 x 24 character mode LCD for the status and account balance display
- Keys: 12 alphanumeric keypads and 9 function keys: Spk, Mute, Volume up, Volume down, Redial, Speed Num, Balance, Call Record, Voice Msg
- 6 LEDs to indicate phone status; Call Record, Voice Msg, Ethernet Status, Power Status, Spk, Mute
- Softkeys: 4 programmable soft keys
- Support for Audio CODEC: G.711u, G.711a, G.729, G.729a, G.729b, G.729ab
- Power Adaptor: 100V ~ 240VAC input, +5VDC output

H323 Protocol

- Interoperability: ITU-T H.323 v4 support, compatible with most H.323 v1-v4 systems and devices
- Numbering format: support different E.164 registration format (E.164, H.323 ID, MAC address) and dialing format
- H323 Proxy: built-in H.323 proxy to pass NAT
- Support Faststart and H.245 tunneling
- Support H245: Outband DTMF transmit by H.245 user input or Q.931 keypad
- Support Q.931: Caller ID send and receive by Q.931
- Security: H.235 security authorization based on MD5
- Gatekeeper: alternate gatekeeper selection
- Support/provide direct IP to IP call mode, including direct PSTN call by a gateway
- Automatically discover gatekeeper in LAN

SIP Protocol

- RFC3261 (SIP: Session Initiation Protocol)
- RFC 2976 (SIP INFO Method)
- RFC 2327 (SDP: Session Description Protocol)
- RFC 3264 (An off/answer model with the Session Description Protocol)
- RFC 1889 (RTP: Real-time Transport Protocol)
- RFC 1890 (RTP profile for audio and video conferences with minimal control)
- RFC 2833 (RTP payload for DTMF digits, telephone tones and signals)
- Support inband DTMF tone send/receive with RTP
- Support out of band DTMF signaling based on RFC2833
- RFC 3489 (Simple Traversal of User Datagram Protocol (UDP) through network address translators (NATs))
- RFC 2617 (HTTP Authentication)

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