

# VoIP!Phone™ Q-Fone-SoHo

Full Features IP Phone for the Small Office and Home Office

Proven interoperability with all SIP compliant system or network for reliable and best quality IP telephony performance

Designed specially for use with ISAVOX IP-PBX for building private telephone network for the corporation

CE and FCC certified for high safety and performance standards



## Features & Specifications

<p><b>Call Handling Functions</b></p> <ul style="list-style-type: none"> <li>Call Forwarding</li> <li>Call Hold</li> <li>Call screen/ Do Not Disturb</li> <li>Call Pickup</li> <li>Call Transfer</li> <li>Call Waiting</li> <li>3-Way Conference call</li> <li>SIMPLE Based Instant Messaging and Presence</li> <li>Auto Provisioning (HTTPS, HTTP, TFTP)</li> </ul> <p><b>SIP Protocol Compliance</b></p> <ul style="list-style-type: none"> <li>Proxy Registration and Failover</li> <li>Outbound Proxy</li> <li>Multi-User Registration</li> <li>Registration Timer</li> <li>SIP Transport – UDP, TCP, TLS</li> <li>Secured Media Negotiation(SRTP)</li> <li>Realm-Based Authentication(Digest Authentication)</li> <li>Session Timers</li> <li>DNS Query (A Record, SRV, NAPTR)</li> <li>CoDec Negotiation</li> <li>DTMF Relay RTP Payload(RFC 2833) or SIP Info</li> <li>Hook Flash Signaling</li> <li>Visual Message Waiting Indicator</li> </ul> <p><b>Display</b></p> <ul style="list-style-type: none"> <li>LCD : 128x32 Black/White Graphic LCD</li> <li>Multi-Language Support : English, Korean, Czech, and Others</li> </ul>	<p><b>DTMF/Ring Signal</b></p> <ul style="list-style-type: none"> <li>DTMF (Dual-Tone Multi-Frequency)</li> <li>Multiple Ring Tones</li> <li>My Bell : 10 Ring Tones</li> <li>Call Progress Tone Generation (Dial Tone, Busy, Audible Ring Back)</li> <li>DTMF Generation (RFC 2833 In-Audio or Out-of-Band SIP Info)</li> </ul> <p><b>Voice &amp; Codec</b></p> <ul style="list-style-type: none"> <li>CNG (Comfort Noise Generation)</li> <li>Echo Cancellation : G.168 Compliance</li> <li>Codec Auto Negotiation</li> <li>CoDecs</li> <li>-Narrow Band -G.711μLaw/aLaw with PLC, G.722.1, G.723.1/A, G.726, G.728, G.729A/AB/E , Broadvoice@16</li> <li>-Wide Band – G.722.1, Broadvoice@32</li> <li>Echo Suppression (G.164)</li> <li>Enhanced Packet Loss Concealment</li> <li>Silence Suppression (G.164)</li> <li>VAD (Voice Active Detector)</li> <li>Adaptive Jitter Buffer</li> <li>SIPFrag (RFC 3420)</li> <li>Dynamic Payload Support</li> <li>Adjustable Audio Frames per Packet</li> <li>Flexible Dial Plan Support with Inter-Digit Timers</li> </ul> <p><b>Power</b></p> <ul style="list-style-type: none"> <li>Power Adaptor: Output DC5V/1A, Input AC100~240V(50/60Hz)</li> <li>Power Consumption: 5Watts (Max)</li> </ul>	<p><b>IP Network</b></p> <ul style="list-style-type: none"> <li>IPv4 (RFC 791), IPv6(RFC1883) Dual Stack (Optional), TCP, UDP, HTTP, ARP, ICMP</li> <li>RTP/RTCP , Secure RTP</li> <li>DNS: A Record (RFC 1706), SRV Record (RFC 2783)</li> <li>NAT/PAT</li> <li>VLAN: IEEE 802.1q</li> <li>QoS : IEEE 802.1p, DiffServ(RFC 2475)</li> <li>Network Address Assignment: Static IP/DHCP, PPPoE</li> </ul> <p><b>Management</b></p> <ul style="list-style-type: none"> <li>Password Protection for Admin Mode and User Mode</li> <li>Management Protocol : SNMPv2 (RFC 2782)</li> <li>Auto Provisioning : DHCP TFTP, Static TFTP, HTTP</li> <li>Remote Software Upgrade : http, tftp</li> <li>Remote Configuration</li> </ul> <p><b>Ethernet</b></p> <ul style="list-style-type: none"> <li>Dual Switched 10/100 Based-T Through RJ-45 Interfaces</li> <li>10/100BASE-T : 2 Ports Providing Auto-MDI/MDIX, Enabling the Use of Straight or Crossover Cable in Either Port</li> <li>1 RJ-45 Port to Connect LAN or Wan, This Port Supports Optional PoE (IEEE802.3af or In Line Power)</li> <li>1 RJ-45 Port to Connect PC</li> </ul>	<p><b>Key &amp; Button</b></p> <ul style="list-style-type: none"> <li>Dial Keys : 12 Keys (0 to 9, * and # Key – ITU(E.161)</li> <li>10 Function Keys</li> <li>Speaker Phone Button for Conference Call</li> <li>8 Memory Dial Keys</li> <li>5 Navigating Keys : Up, Down, Left, Right, Menu, Enter, ESC</li> <li>Volume Up/Down Keys for Ringer, Speaker and Handset Receiver</li> <li>Phonebook: Record 100 Entries</li> <li>Call History Logs: Records 60 Entries for In/Outbound Calls and Missed Calls.</li> </ul> <p><b>Technical Spec</b></p> <ul style="list-style-type: none"> <li>Dimensions (Main body) : 220x160x61mm (WxHxL)</li> <li>Weight : 600g</li> <li>Color : Black / Beige</li> <li>Operating Temp : 0~45 ° c</li> <li>Storage Temp : -20~60 ° c</li> <li>Humidity : 10~85% (Non-Condensing)</li> </ul>
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### RFCs supported

RFC2327	Session Description Protocol(SDP)
RFC2976	The SIP INFO Method
RFC3261	SIP: Session Initiation Protocol
RFC3262	Reliability of Provisional Responses in SIP
RFC3263	SIP : Locating SIP Servers
RFC3264	An Offer/Answer Model with SDP
RFC3265	SIP – Specific Event Notification
RFC3420	Internet Media Type message/sipfrag

RFC3428	SIP Extension for Instance Messaging
RFC3515	The SIP Refer Method
RFC3725	Best Current Practices for Third Party Call Control in SIP
RFC3842	A Message Summary and Message Waiting Indication Event Package for SIP
RFC3892	The SIP Referred-By Mechanism
RFC3903	SIP Extension for Event State Publication
RFC4568	SDP Security Descriptions for Media Streams

### IETF drafts supported

Draft-ietf-sipping-cc-transfer-01	SIP call control – Transfer
Draft-ietf-sip-replaces-02	The SIP Replaces Header
Draft-ietf-sip-session-timer-08	The SIP Session Timer

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