



## **Data Sheet HTC-900 Series – IP Phones**

## HTC – 900 Series IP Phones (HTC-902 & HTC-921)

### Product Appearance:



HTC921



HTC902

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#### HTC 900 Series IP Phones:

**HTC902** - 132\*48 dot-matrixes with backlight screen, 2 SIP accounts, HD voice, Support PoE, 4 Soft-keys

**HTC921** - 2.8 inch LCD color-screen, 4 SIP accounts, HD voice, PoE, 4 Soft-keys, 4 pages/ 28 paperless keys

## **Product Features:**

### **Generic:**

- HD Voice microphone/speaker (handset/hands-free,0~7KHz frequency response)
- Handset(HS) / Hands-free(HF) / Headphone (HP) mode (EHS support for Plantronics headsets)
- POE
- Desktop/Wall-mount installation

### **Call Features:**

- Call out/answer/reject; Mute/Unmute
- Call hold/resume
- Call Waiting; Intercom
- Caller ID Display
- Call Forwarding (Always/Busy/No Answer)
- Blind / Attended Call Transfer
- Call Parking / Pick-up; Redial/ Auto-Redial
- DND(per line / per phone); Auto-Answering (per line / per phone)
- 3-way Conference; Hot Line

### **Phone Features:**

- Phonebook (500entries)
- Cloud Phonebook
- Call log (in/out/missed)
- Blacklist Whitelist
- Message Waiting Indication (VMWI)
- Programmable Soft keys
- Network Time Synchronization
- Action URL / Active URI

### **Networking Features:**

- Network Access Control:802.1x
- IP Configuration: Static/ DHCP/ PPPoE
- VPN : L2TP/Open VPN
- VLAN
- QoS

### **Audio Features:**

- Codec : G.711a/u, G.723.1, G.722, G.726-32, G.729AB
- Full-duplex Acoustic Echo Canceller (AEC)
- Voice Activity Detection (VAD)
- Comfort Noise Generation (CNG)
- Background Noise Estimation (BNE)
- Noise Reduction (NR)
- Packet loss concealment (PLC)
- Dynamic Adaptive Jitter Buffer up to 300ms
- DTMF: In-band, Out-of-band —DTMF-Relay(RFC2833) / SIP INFO

### **Protocols:**

- SIP2.0 over UDP/TCP/TLS
- RTP/RTCP/SRTP; STUN
- DHCP; PPPoE
- DNS (A re- cord, SRV, NAPTR),
- 802.1x
- L2TP(Basic Unencrypted)
- OpenVPN
- SNTP
- FTP/TFTP; HTTP/HTTPS; TR069

### **RFCs:**

- 354/1321/1350/1769/1889/1890/ 2131/2132/2616/2617/2661/2833/ 2915/ 2976/3261/3262/3263/3264/3265/  
3268/3311/3489/3711/4346/4566/ 5630/586

### **Deployment & Maintenance:**

- Auto-Provisioning via FTP/TFTP/HTTP/HTTPS/DHCP OPT66/SIP PNP/TR069
- Web Management Portal
- Web-based Packet-dump
- Configuration Import/Export
- Phonebook Import/Export
- Firmware Upgrade
- syslog

## **Product Specification:**

<b>Product Model</b>	<b>HTC902</b>	<b>HTC921</b>
<b>SIP Line</b>	2 lines	4 lines
<b>Installation</b>	Desktop/Wall-mount	
<b>Screen</b>	132 x 48 dot-matrix with backlight	320 x 240 dot-matrix, 2.8 inch LCD color-screen
<b>Key Pad</b>	31-keys,-including:- 12 Standard Phone Digits keys; 4-Soft-keys;-4 Navigation keys + 1 OK key; 1-Hands-free-key; 2 Volume Control keys, Up/Down;- 6-Function-keys	39-keys,-including:-12 Standard Phone Digits-keys;-4-Soft-keys;-4-Navigation keys+1;OK-key; 1-Hands-free-key; 2 Volume Control keys, Up/Down; 6-Function-keys- 8 DSS key with tri-color LED;
<b>Protocols</b>	SIP 2.0 over UDP/TCP/TLS, RTP/RTCP/SRTP, STUN, DHCP, PPPoE, 802.1x, L2TP (Basic Unencrypted), Open VPN, SNTP, FTP/TFTP, HTTP/HTTPS, DNS (A re- cord, SRV, NAPTR), TR069	
<b>Codec</b>	G.711a/u, G.723.1, G.722, G726-32, G.729AB	

<b>Network Interface</b>	1 * 10/100 M (802.3af Class 1 POE); PC*1 (Bridge to Ethernet)	1* 10/100/1000M (802.3af Class 2 POE)
<b>IP Service</b>	Static IP, DHCP, VPN, PPPoE, Bridge	
<b>DTMF</b>	In-band, Out-of-band- DTMF (RFC2833) / SIP INFO	
<b>Power Supply</b>	PoE / Power adapter	
<b>Power Input</b>	5V / 1A	
<b>Power Consumption</b>	Idle: 1.3W, Peak : 4.3W	Idle:1.7W , Peak:5.7W
<b>Operation Environment</b>	Temperature: 0~40°C ; Humidity: 10~65%	
<b>HD Hands-free Speaker</b>	1 ( 0~7KHz)	
<b>HD-Hands-free Microphone</b>	1 ( 0~7KHz)	
<b>HD Handset RJ9</b>	1 (with Standard RJ9 handset wire)	
<b>1.5M CAT5 cable</b>	1	
<b>Phonebook</b>	500 entries	

<b>Call Log</b>	<b>600 entries</b>
<b>Cloud Phonebook</b>	<b>XML/LDAP</b>
<b>Packing Dimensions</b>	<b>260x255x62mm (L x W x H)</b>

## **Ordering Information:**

<b>Product</b>	<b>Description</b>
<b>HTC-902-POE</b>	132*48 dot-matrixes with backlight screen, 2 SIP accounts, HD voice, Support PoE, 4 Soft-keys, One year warranty.
<b>HTC-921-POE</b>	2.8 inch LCD color-screen, 4 SIP accounts, HD voice, support PoE, 4 Soft-keys, 4 pages/ 28 paperless keys, One year warranty

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All specifications are subject to change without further notice. All features with \* mark will be available by firmware upgrade



## Solution Diagram:

