GRANDSTREAM
GXP1630
A Small Business
Gigabit IP Phone

The GXP1630 is a powerful IP phone for small-to-medium sized businesses (SMBs). This Linux-based model includes 3 lines, 3 XML programmable soft keys, 8 BLF keys and 4-way conferencing. A 132x64 backlit LCD screen creates a clear display for easy viewing. Additional features such as dual switched gigabit network ports, HD audio, multi-language support, integrated PoE and call-waiting allow the GXP1630 to be a high quality, versatile and dependable office phone.

<table>
<thead>
<tr>
<th>Features</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>3 Lines</td>
<td>3 lines, 3 SIP accounts, 3 call appearances, 3 softkeys</td>
<td>Use with Grandstream’s UCM series of IP PBXs for Zero Config provisioning</td>
</tr>
<tr>
<td>Gigabit</td>
<td>Dual switched auto-sensing 10/100/1000mbps network ports</td>
<td>Electronic Hook Switch (EHS) support for Plantronics headsets</td>
</tr>
<tr>
<td></td>
<td>Includes 8 dual colored BLF/speed dial keys</td>
<td>Automated provisioning options include TR-069 and XML config files</td>
</tr>
<tr>
<td>PoE</td>
<td>Built-in PoE to power the device and give it a network connection</td>
<td>TLS and SRTP security encryption technology to protect calls and accounts</td>
</tr>
<tr>
<td>HD</td>
<td>HD audio to maximize audio quality, full-duplex speakerphone</td>
<td>4-way audio conferencing for easy conference calls</td>
</tr>
</tbody>
</table>
## Specifications

### Protocols/Standards
- SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP/RARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, SLH, TFTP, NTP, STUN, SIMPLE, LLDP-MED, LDAP, TR-069, 802.1x, TLS, SRTP

### Network Interfaces
- Dual switched auto-sensing 10/100/1000 Mbps Ethernet ports, integrated PoE

### Graphic Display
- 132 x 64 backlit graphical LCD display

### Bluetooth
- Yes, integrated

### Feature Keys
- 3 line keys with dual-color LED and 3 SIP accounts, 3 XML programmable context sensitive soft keys, 5 (navigation, menu) keys, 8 BLF keys, 13 dedicated function keys for MUTE, HEADSET, TRANSFER, CONFERENCE, SEND and REDIAL, SPEAKERPHONE, VOLUME, PHONEBOOK, MESSAGE, HOLD, PAGE/INTERCOM, RECORD, HOME

### Voice Codecs

### Headset Jack
- RJ9 headset jack (allowing EHS with Plantronics headsets)

### Telephony Features
- Hold, transfer, forward (unconditional/no-answer/busy), call park/pickup, 4-way conference, shared-call-appearance (SCA) / bridged-line-appearance (BLA), downloadable phone book (XML, LDAP, up to 500 items), call waiting, call history (up to 200 records), off-hook auto dial, auto answer, click-to-dial, flexible dial plan, hot desking, personalized music ringtones, server redundancy & fail-over

### HD Audio
- Yes, HD handset and speakerphone with support for wideband audio

### Base Stand
- Yes, 2 angled positions available, wall mountable

### Wall Mountable
- Yes

### QoSs
- Layer 2 QoS (802.1Q, 802.1P)
- and Layer 3 QoS (ToS, DiffServ, MPLS)

### Security
- User and administrator level access control, MD5 and MD5-sess based authentication, 256-bit AES encrypted configuration file, TLS, SRTP, HTTPS, 802.1x media access control

### Multi-language
- English, German, Italian, French, Spanish, Portuguese, Russian, Croatian, simplified and traditional Chinese, Korean, Japanese and more

### Upgrade/Provisioning
- Firmware upgrade via TFTP / HTTP / HTTPS, mass provisioning using TR-069 or AES encrypted XML configuration file.

### Power and Green Energy Efficiency
- Universal Power Supply Input 100-240VAC 50-60Hz; Output +5VDC, 600mAPoE : IEEE802.3 af Class 2, 3.84W-6.49W

### Physical
- Dimension : 222.5mm (L) x 208.5mm (W) x 76.2mm (H) (with handset)
- Unit weight : 0.8kg; Package weight : 1.2kg

### Temperature and Humidity
- Operation : 0°C to 40°C,
- Storage : -10°C to 60°C
- Humidity : 10% to 90% Non-condensing

### Package Content
- GXP1630 phone, handset with cord, base stand, universal power supply network cable, Quick Installation Guide, brochure, GPL License
The GXP2135 is an enterprise-grade IP phone that supports Gigabit speeds and up to 32 virtual BLF/speed-dial keys, making it ideal for busy workers. This Enterprise IP Phone features up to 8 lines/line keys and 4 SIP accounts using a 2.8-inch color display LCD and full HD audio. The GXP2135 includes up to 32 digital, on-screen speed dial/BLF keys to help users be more productive and efficient. This Enterprise IP Phone supports the fastest possible connection speeds with dual Gigabit network ports, features integrated PoE and includes built-in Bluetooth for syncing with mobile devices and Bluetooth headsets. The GXP2135 is the perfect choice for business users looking for a powerful and reliable IP phone with advanced functionality.

### Features

<table>
<thead>
<tr>
<th><strong>8 LINES</strong></th>
<th><strong>8 lines, 8 dual-color line keys (with 4 SIP accounts), 4 XML programmable context-sensitive soft keys</strong></th>
<th><strong>EHS</strong></th>
<th><strong>Supports EHS compatible Plantronics headsets</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Gigabit</strong></td>
<td><strong>Dual switched auto-sensing</strong>&lt;br&gt;10/100/1000Mbps Gigabit network ports</td>
<td><strong>Automated provisioning options</strong>&lt;br&gt;include TR-069 and XML config files</td>
<td><strong>TLS and SRTP security encryption technology to protect calls and accounts</strong></td>
</tr>
<tr>
<td><strong>32 digitally programmable &amp; customizable</strong>&lt;br&gt;BLF/fastdial keys</td>
<td><strong>Built-in Bluetooth for syncing headsets and mobile devices for contact books, calendars &amp; call transferring</strong></td>
<td><strong>4-way audio conferencing</strong>&lt;br&gt;for easy conference calls</td>
<td><strong>Use with Grandstream’s UCM series IP PBX appliance for Zero-Config provisioning, 1-touch call recording &amp; more</strong></td>
</tr>
<tr>
<td><strong>HD</strong></td>
<td><strong>HD audio to maximize audio quality, full-duplex speakerphone</strong></td>
<td><strong>zero CONFIG</strong></td>
<td><strong>Built-in PoE to power the devices and give it a network connection</strong></td>
</tr>
</tbody>
</table>
### Specifications

#### Protocols/Standards
- SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, TELNET, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPV6

#### Network Interfaces
- Dual switched auto-sensing 10/100/1000 Mbps
- Gigabit Ethernet ports with integrated PoE

#### Graphic Display
- 2.8-inch (320x240) TFT color LCD

#### Bluetooth
- Yes, integrated

#### Feature Keys
- 8 line keys with up to 4 SIP accounts, 4 XML programmable context sensitive soft keys, 5 navigation/menu keys, 11 dedicated function keys for: MESSAGE (with LED indicator), PHONEBOOK, TRANSFER, CONFERENCE, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOL+, VOL

#### Voice Codecs

#### Auxiliary Ports
- RJ9 headset jack (allowing EHS with Plantronics headsets)

#### Telephony Features
- Hold, transfer, forward, 4-way conference, call park, call pickup, shared-call appearance (SCA)/bridged-line-appearance(BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 500 records), XML customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, hot desking, personalized music ringtones and music on hold, server redundancy and fail-over

#### HD Audio
- Yes, HD handset and speakerphone with support for wideband audio

#### Base Stand
- Yes, 2 angled positions available, wall mountable

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#### Wall Mountable
- Yes

#### QoSs
- Layer 2 QoS (802.1Q, 802.1P)
- and Layer 3 (ToS, DiffServ, MPLS) QoS

#### Security
- User and administrator level passwords, MD5 and MD5-sess based authentication, 256-bit AES encrypted configuration file, SRTP, TLS, 802.1x media access control

#### Multi-language
- English, German, Italian, French, Spanish, Portuguese, Russian, Croatian, Chinese, Korean, Japanese

#### Upgrade/Provisioning
- Firmware upgrade via TFTP / HTTP / HTTPS, mass provisioning using TR-069 or AES encrypted XML configuration file.

#### Power and Green Energy Efficiency
- Universal power adapter included: Input:100-240V; Output: +12V, 0.5A ; Integrated Power-over-Ethernet (802.3af) Max power consumption: 6.4W (power adapter) or 6.49W (PoE)

#### Physical
- Dimension: 201mm(W) x 193mm(L) x 85mm(H);
- Unit weight: 0.85kg;
- Package weight:1.2kg

#### Temperature and Humidity
- Operation: 0°C to 40°C
- Storage: -10°C to 60°C
- Humidity: 10% to 90% Non-condensing

#### Package Content
- GXP2135 phone, handset with cord, base stand, universal power supply, network cable, Quick Installation Guide, GPL license

#### Compliance
- **FCC**: Part 15 (CFR 47) Class B
- **CE**: EN55022 Class B; EN55024 Class B; EN61000-3-2; EN61000-3-3;EN60950-1
- **RCM**: AS/ACIF S004; AS/NZS CISPR22/24; AS/NZS 60950.1
GRANDSTREAM
GXP2140
A versatile
Enterprise IP Phone

A versatile Enterprise IP phone, the GXP2140 is a Linux-based device that includes 4 lines, 5 XML programmable soft keys, and 5-way conferencing. A 4.3-inch color LCD screen and HD audio allow for a crisp display and high quality calls. The GXP2140 comes equipped with Bluetooth, USB and EHS capabilities for flexibility. The phone also comes pre-loaded with weather & currency exchange apps. Add up to four GXP2200EXT modules to view an additional 160 lines, and customize your language for global use.

<table>
<thead>
<tr>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>4 LINES</strong></td>
</tr>
<tr>
<td>4 lines, with up to 4 SIP accounts,</td>
</tr>
<tr>
<td>4 dualcolored line keys</td>
</tr>
<tr>
<td>Electronic Hook Switch</td>
</tr>
<tr>
<td>(EHS) support for Plantronics</td>
</tr>
<tr>
<td><strong>Gigabit</strong></td>
</tr>
<tr>
<td>Dual switched auto-sensing</td>
</tr>
<tr>
<td>10/100/1000Mbps Gigabit network ports</td>
</tr>
<tr>
<td>Automated provisioning options</td>
</tr>
<tr>
<td>include TR-069 and XML config files</td>
</tr>
<tr>
<td><strong>Supports the GXP2200 EXT Module</strong></td>
</tr>
<tr>
<td>for up to 160 speed dial/BLF contacts</td>
</tr>
<tr>
<td>TLS and SRTP security encryption technology</td>
</tr>
<tr>
<td>to protect calls and accounts</td>
</tr>
<tr>
<td><strong>Built-in Bluetooth</strong></td>
</tr>
<tr>
<td>for syncing headsets and mobile devices for</td>
</tr>
<tr>
<td>contact books, calendars &amp; call transferring</td>
</tr>
<tr>
<td>Built-in USB ports for importing/exporting</td>
</tr>
<tr>
<td>data</td>
</tr>
<tr>
<td><strong>HD</strong></td>
</tr>
<tr>
<td>HD audio to maximize audio quality and</td>
</tr>
<tr>
<td>clarity, full-duplex speakerphone</td>
</tr>
<tr>
<td>5-way audio conferencing for easy conference</td>
</tr>
<tr>
<td>calls</td>
</tr>
<tr>
<td><strong>PoE</strong></td>
</tr>
<tr>
<td>Built-in PoE to power the devices</td>
</tr>
<tr>
<td>and give it a network connection</td>
</tr>
<tr>
<td>Specifications</td>
</tr>
<tr>
<td>----------------</td>
</tr>
<tr>
<td><strong>Protocols/Standards</strong></td>
</tr>
<tr>
<td>SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, Telnet, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPv6</td>
</tr>
<tr>
<td><strong>Network Interfaces</strong></td>
</tr>
<tr>
<td>Dual switched auto-sensing 10/100/1000 Mbps Gigabit Ethernet ports with integrated PoE</td>
</tr>
<tr>
<td><strong>Graphic Display</strong></td>
</tr>
<tr>
<td>4.3-inch (480x272) TFT color LCD</td>
</tr>
<tr>
<td><strong>Bluetooth</strong></td>
</tr>
<tr>
<td>Yes, Bluetooth V2.1</td>
</tr>
<tr>
<td><strong>Feature Keys</strong></td>
</tr>
<tr>
<td>4 line keys with up to 4 SIP accounts, 5 programmable context-sensitive soft keys, 5 navigation/menu keys, 11 dedicated function keys for: MESSAGE (with LED indicator), PHONEBOOK, TRANSFER, CONFERENCE, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOL+, VOL</td>
</tr>
<tr>
<td><strong>Voice Codecs</strong></td>
</tr>
<tr>
<td>Support for G.729A/B, G.711u/a-law, G.726, G.722 (wide-band), and iLBC, in-band and out-of-band DTMF (in audio, RFC2833, SIP INFO)</td>
</tr>
<tr>
<td><strong>Auxiliary Ports</strong></td>
</tr>
<tr>
<td>RJ9 headset jack (allowing EHS with Plantronics headsets), USB, extension module port</td>
</tr>
<tr>
<td><strong>Telephony Features</strong></td>
</tr>
<tr>
<td>Hold, transfer, forward, 5-way conference, call park, call pickup, shared-call-appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 500 records), customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, hot desking, personalized music ringtones and music on hold, server redundancy and fail-over</td>
</tr>
<tr>
<td><strong>Sample Applications</strong></td>
</tr>
<tr>
<td>Weather, currency, news, XML</td>
</tr>
<tr>
<td><strong>HD Audio</strong></td>
</tr>
<tr>
<td>Yes, both on handset and speakerphone</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Extension Module</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes, can power up to 4 GXP2200EXT modules which feature a 128x384 graphic LCD, 20 quick-dial/BLF keys with dual-color LED, 2 navigation keys, and less than 1.2W power consumption per unit.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Base Stand/Wall Mountable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes, allow 2 angle positions</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>QoSs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Layer 2 (808.1Q, 802.1p) and Layer 3 (ToS, DiffServ, MPLS) QoS</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Security</th>
</tr>
</thead>
<tbody>
<tr>
<td>User and administrator level passwords, MD5 and MD5-sess based authentication, AES-based secure configuration file, SRTP, TLS, 802.1x media access control</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Multi-language</th>
</tr>
</thead>
<tbody>
<tr>
<td>English, Arabic, Chinese, Croatian, Czech, Dutch, German, French, Hebrew, Hungarian, Italian, Japanese, Korean, Polish, Portuguese, Russian, Slovenian, Spanish, Turkish</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Upgrade/Provisioning</th>
</tr>
</thead>
<tbody>
<tr>
<td>Firmware upgrade via TFTP/HTTP/HTTPS, mass provisioning using TR-069 or encrypted XML configuration file.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Power and Green Energy Efficiency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal power adapter included: Input: 100-240V; Output: +12V, 1.0A; Integrated Power-over-Ethernet (802.3af) Max power consumption: 6W (without GXP2200EXT), 10W(with 4 cascaded GXP2200EXTs)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimention: 228mm (W) x 206mm (L) x 46.5mm (H); Unit weight: 0.98kg; Package weight: 1.55kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Temperature and Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operation: 0°C to 40°C</td>
</tr>
<tr>
<td>Storage: -10°C to 60°C</td>
</tr>
<tr>
<td>Humidity: 10% to 90% Non-condensing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Package Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>GXP2140 phone, handset with cord, base stand, universal power supply, network cable, Quick Start Guide</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td>FCC: Part 15 (CFR 47) Class B, EN55022 Class B, EN55024, EN61000-3-2, EN61000-3-3, EN 60950-1, EN62479 AS/NZS CISPR 22 Class B, AS/NZS CISPR 24, RoHS; UL 60950 (power adapter)</td>
</tr>
</tbody>
</table>
GRANDSTREAM
GXP2170
An Enterprise IP Phone for High-Volume Users

The GXP2170 is a powerful enterprise-grade IP phone that is ideal for busy users who handle high call volumes. This top-of-the-line Enterprise IP Phone features up to 12 line keys/line appearances and 6 SIP accounts using a 4.3-inch color display LCD and full HD audio. It includes up to 48 digital, on-screen speed dial/BLF keys to help users be more productive and efficient. The GXP2170 supports the fastest possible connection speeds with dual Gigabit network ports, features integrated PoE and includes built-in Bluetooth for syncing with mobile devices and Bluetooth headsets. This Enterprise IP phone can connect to up to four GXP2200 EXT modules with LCD display to access up to 160 speed dial/BLF contacts. The GXP2170 is the perfect choice for enterprise users looking for a top-notch executive IP phone with advanced functionality.

<table>
<thead>
<tr>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>12 Lines</strong></td>
</tr>
<tr>
<td>12 dual-color keys (with 6 SIP accounts), 5 XML programmable context sensitive soft keys</td>
</tr>
<tr>
<td>Supports EHS compatible Plantronics headsets</td>
</tr>
<tr>
<td><strong>Gigabit</strong></td>
</tr>
<tr>
<td>Dual switched auto-sensing 10/100/1000Mbps Gigabit network ports</td>
</tr>
<tr>
<td>Automated provisioning options include TR-069 and XML config files</td>
</tr>
<tr>
<td><strong>PoE</strong></td>
</tr>
<tr>
<td>HD audio to maximize audio quality and clarity; full duplex speakerphone</td>
</tr>
<tr>
<td>5-way audio conferencing for easy conference calls</td>
</tr>
<tr>
<td><strong>Built-in Bluetooth</strong></td>
</tr>
<tr>
<td>Built-in Bluetooth for syncing headsets and mobile devices for contact books, calendars &amp; call transferring</td>
</tr>
<tr>
<td>TLS and SRTP security encryption technology to protect calls and accounts</td>
</tr>
<tr>
<td><strong>Built-in USB ports</strong></td>
</tr>
<tr>
<td>48 digitally programmable &amp; customizable BLF/fast dial keys, and supports up to 4 cascaded XP2200EXT Modules</td>
</tr>
<tr>
<td>Built-in USB ports for importing/exporting data</td>
</tr>
<tr>
<td><strong>Built-in PoE</strong></td>
</tr>
<tr>
<td>Use with Grandstream’s UCM series IP PBX appliance for Zero-Config provisioning, 1-touch call recording &amp; more</td>
</tr>
</tbody>
</table>

GRANDSTREAM
GXP2170
An Enterprise IP Phone for High-Volume Users
### Specifications

#### Protocols/Standards
- SIP RFC3261, TCP/IP/UDP, RTP/RTCP, HTTP/HTTPS, ARP, ICMP, DNS (A record, SRV, NAPTR), DHCP, PPPoE, TELNET, TFTP, NTP, STUN, SIMPLE, LLDP, LDAP, TR-069, 802.1x, TLS, SRTP, IPv6VAD, CNG, AEC, PLC, AJB, AGC

#### Network Interfaces
- Dual-switched auto-sensing 10/100/1000 Mbps Gigabit Ethernet ports with integrated PoE

#### Graphic Display
- 4.3-inch (480x272) TFT color LCD

#### Bluetooth
- Yes, integrated

#### Feature Keys
- 12 line keys with up to 6 SIP accounts, 5 XML programmable context-sensitive soft keys, 5 navigation/menu keys, 11 dedicated function keys for: MESSAGE (with LED indicator), PHONEBOOK, TRANSFER, CONFERENCE, HOLD, HEADSET, MUTE, SEND/REDIAL, SPEAKERPHONE, VOL+, VOL

#### Voice Codecs

#### Auxiliary Ports
- RJ9 headset jack (allowing EHS with Plantronics headsets), USB, extension module port

#### Telephony Features
- Hold, transfer, forward, 5-way conference, call park, call pickup, shared-call appearance (SCA)/bridged-line-appearance (BLA), downloadable phonebook (XML, LDAP, up to 2000 items), call waiting, call log (up to 500 records), XML customization of screen, off-hook auto dial, auto answer, click-to-dial, flexible dial plan, hot desking, personalized music ringtones and music on hold, server redundancy and fail-over

#### HD Audio
- Yes, HD handset and speakerphone
  with support for wideband audio

#### Extension Module
- Yes, can power up to 4 GXP2200EXT modules which feature a 128x384 graphic LCD, 20 quick-dial/BLF keys with dual-color LED, 2 navigation keys, and less than 1.2W power consumption per unit.

### Base Stand
- Yes, 2 angle positions available, Wall Mountable

### QoSs
- Layer 2 QoS (802.1Q, 802.1P) and
- Layer 3 (ToS, DiffServ, MPLS) QoS

### Security
- User and administrator level passwords, MD5 and MD5-sess based authentication, 256-bit AES encrypted configuration file, SRTP, TLS, 802.1x media access control

### Multi-language
- English, German, Italian, French, Spanish, Portuguese, Russian, Croatian, Chinese, Korean, Japanese

### Upgrade/Provisioning
- Firmware upgrade via TFTP / HTTP / HTTPS, mass provisioning using TR-069 or AES encrypted XML configuration file.

### Power and Green Energy Efficiency
- Universal power adapter included: Input: 100-240V ; Output: +12V, 1.0A ; Integrated Power-over-Ethernet (802.3af)
- Max power consumption: 5.4W(without GXP2200EXT) or 9.2W(with 4 cascaded GXP2200EXTs)

### Physical
- Dimension: 228mm(W) x 206mm(L) x 46mm(H);
  Unit weight:0.98kg ; Package weight:1.43kg

### Temperature and Humidity
- Operation: 0°C to 40°C
- Storage: -10°C to 60°C
- Humidity: 10% to 90% Non-condensing

### Package Content
- GXP2170 phone, handset with cord, base stand, universal power supply, network cable, Quick Installation Guide, GPL license

### Compliance
- FCC: Part 15 (CFR 47) Class B
- CE: EN55022 Class B; EN55024 Class B; EN61000-3-2; EN61000-3-3;EN60950-1
- RCM: AS/ACIF S004; AS/NZS CISPR22/24; AS/NZS 60950.1
YEALINK

SIP-T21P

Entry-level IP phone with 2 Lines & HD voice

Yealink’s new SIP-T21P takes entry-level IP phones to a level never achieved before. Making full use of high-quality materials, plus an extra-large 132x64-pixel graphical LCD showing a clear 5-line data display, it offers a smoother user experience, much more visual information at a glance, plus HD Voice characteristics. Dual 10/100 Mbps network ports with integrated PoE are ideal for extended network use. The T21P supports two VoIP accounts, simple, flexible and secure installation options, plus support for IPv6, Open VPN and a redundancy server. It also operates with SRTP/ HTTPS/ TLS, 802.1x. As a very cost-effective and powerful IP solution, the T21P maximizes productivity in both small and large office environments.

Features

<table>
<thead>
<tr>
<th>HD Voice</th>
<th>Opus Codec</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optima HD Voice</td>
<td>Opus Codec</td>
</tr>
</tbody>
</table>

HD Audio

Yealink HD Voice refers to the combination of software and hardware design as well as the implementation of wideband technology to maximize the acoustic performance. Coupled with advanced acoustic clarity technology such as full duplex, echo cancellation, adaptive jitter buffer etc. Provides clearer, more lifelike voice communications.

Enhanced Call Management

The SIP-T21P supports vast productivity-enhancing features such as XML Browser, call park, call pickup, BLF, call forward, call transfer, 3-way conference, which make it the natural and obvious efficiency tool for today’s busy office environments.

Efficient Installation and Provisioning

Integrated IEEE 802.3af Power-over-Ethernet allows easy deployment with centralized powering and backup. The SIP-T21P support the FTP, TFTP, HTTP, and HTTPS protocols for file provisioning and are configured by default to use Trivial File Transfer Protocol (TFTP). Supports AES encrypted XML configuration file.

Highly secure transport and interoperability

The Communicator uses SIP over Transport Layer Security (TLS/SSL) to provide service providers the latest technology for enhanced network security. The range is certified and ensures excellent compatibility with leading soft switch suppliers.

- Yealink HD Voice
- 132x64-pixel graphical LCD
- Two-port 10/100 Ethernet Switch
- PoE support
- Up to 2 SIP accounts
- Headset support
- Wall mountable
- Simple, flexible and secure provisioning options
### Specifications

#### Audio Features
- HD voice: HD handset, HD speaker
- Wideband codec: G.722
- Narrowband codec: G.711(Au), G.723.1, G.729AB, G.726, iLBC
- DTMF: In-band, Out-of-band (RFC 2833) and SIP INFO
- Full-duplex, hands-free speakerphone with AEC
- VAD, CNG, AEC, PLC, AJB, AGC

#### Phone Features
- 2 VoIP accounts
- Call hold, mute, DND
- One-touch speed dial, hotline
- Call forward, call waiting, call transfer
- Group listening, SMS, emergency call
- Redial, call return, auto answer
- Local 3-way conferencing
- Direct IP call without SIP proxy
- Ringtone selection/import/delete
- Set date time manually or automatically
- Dial plan
- XML Browser, action URL/URI

#### Directory
- Local phonebook up to 1000 entries
- Black list
- XML/LDAP remote phonebook
- Intelligent search method
- Phonebook search/import/export
- Call history: dialed/received/missed/forwarded

#### IP-PBX Features
- Busy Lamp Field (BLF)
- Bridged Line Appearance (BLA)
- Anonymous call, anonymous call rejection
- Message Waiting Indicator (MWI)
- Voice mail, call park, call pickup
- Intercom, paging, music on hold, emergency call
- Call completion, call recording, hot desking

#### Display and Indicator
- 132x64-pixel graphical LCD
- LED for call and message waiting indication
- One-color (green) illuminated LEDs for line status information
- Intuitive user interface with icons and soft keys
- National language selection
- Caller ID with name and number

#### Feature keys
- 2 line keys with LED
- 6 features keys: message, headset, redial, tran, mute, hands-free speakerphone
- 6 navigation keys
- Volume control keys

#### Interface
- 2xRJ45 10/100M Ethernet ports
- Power over Ethernet (IEEE 802.3af), class 2
- 1xRJ9 (4P4C) handset port
- 1xRJ9 (4P4C) handset port

#### Other Physical Features
- Wall mountable
- External universal AC adapter (optional): AC 100~240V input and DC 5V/600mA output
- Power consumption (PSU): 1.2-1.9W
- Power consumption (PoE): 1.8-2.3W
- Dimension(W*D*H*T): 209mm*188mm*150mm*41mm
- Operating humidity: 10~95%
- Operating temperature: -10~50°C

#### Package Features
- Qty/CTN: 10PCS
- N.W./CTN: 10.8kg
- G.W./CTN: 12.3kg
- Giftbox size: 215mm*200mm*118mm
- Carton Size: 615mm*436mm*208mm

#### Management
- Configuration: browser/phone/auto-provision
- Auto provision via FTP/TFTP/HTTP/HTTPS for mass deploy
- Auto-provision with PnP
- Zero-touch
- Phone lock for personal privacy protection
- Reset to factory, reboot
- Package tracing export, system log

#### Network and Security
- SIP v1 (RFC2543), v2 (RFC3261)
- Call server redundancy supported
- NAT transverse: STUN mode
- Proxy mode and peer-to-peer SIP link mode
- IP assignment: static/DHCP
- HTTP/HTTPS web server
- Time and date synchronization using SNTP
- UDP/TCP/DNS-SRV (RFC 3263)
- QoS: 802.1p/Q tagging (VLAN), Layer 3 ToS DSCP
- SRTP for voice
- Transport Layer Security (TLS)
- HTTPS certificate manager
- AES encryption for configuration file
- Digest authentication using MD5/MD5-sess
- OpenVPN, IEEE802.1X
- IPv6

#### Certifications
- 

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![Diagram]({attachment_url})
YEALINK
SIP-T27G
Standard and Affordable SIP Phone for Business

With faster response on the phone’s user interface and better device performance, the SIP-T27G IP phone, as the upgraded product of T27P, is Yealink’s latest feature-rich tool unifying superior voice capabilities and increased function extension capability for business. Yealink’s Optima HD technology and wideband codec of Opus deliver a superb sound quality and bring you life-like voice communications. With an all-new USB port, the SIP-T27G boasts unparalleled functionality and expansibility with Bluetooth, Wi-Fi and USB recording features. Seamlessly migrated to a GigE-based network infrastructure, SIP-T27G IP phone is also built with Gigabit Ethernet, technology for rapid call handling. By using standard encryption protocols, the SIP-T27G performs highly secure remote provisioning and software upgrades.

<table>
<thead>
<tr>
<th>Features</th>
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<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>HD</td>
<td>Opus</td>
<td>Gigabit</td>
<td>USB 2.0</td>
</tr>
<tr>
<td></td>
<td>Optima HD Voice</td>
<td>Opus Codec</td>
<td>Gigabit</td>
<td>USB 2.0</td>
</tr>
</tbody>
</table>

**HD Audio**
Yealink Optima HD Voice technology combines cutting-edge hardware and software with wideband technology for maximum acoustic performance. Being a totally open, highly versatile audio codec, Opus is designed to perform a higher HD audio quality than other wideband codecs in a high network bandwidth. However, if your current network quality is poor, Opus can provide you with a better audio quality than other narrowband codecs.

**Easy Customization and High Expandability**
With an all-new USB port, the SIP-T27G is a powerful and expandable office phone with Bluetooth, Wi-Fi and USB recording features. It has three pages of flexible buttons which can be programmed with up to 21 paperless DSS keys.

**Efficient Installation and Provisioning**
The Yealink SIP-T27G supports efficient provisioning and effortless mass deployment. Yealink’s Redirection and Provisioning Service (RPS) and Boot mechanism helps you carry the Zero Touch Provisioning without any complex manual settings. It’s simple to deploy, easy to maintain and upgrade.

**Secure Transport and Interoperability**
The SIP-T27G uses SIP over Transport Layer Security (TLS/SSL), which is the latest network security technology. It’s also compatible with leading soft switch suppliers.

- Yealink Optima HD voice
- 3.66” 240x120-pixel graphical LCD with backlight
- Gigabit
- USB 2.0
- Opus* codec support
- Up to 6 SIP accounts
- Paper label free design
- PoE support
- Headset, EHS support
- Supports expansion modules
### Specifications

#### Audio Features
- HD voice: HD handset, HD speaker
- Wideband codec: Opus*, G.722
- Narrowband codec: Opus*, G.711(Au), G.723.1, G.729, G.729AB, G.726, LBC
- DTMF: In-band, Out-of-band (RFC 2833) and SIP INFO
- Full-duplex, hands-free speakerphone with AEC
- VAD, CNG, AEC, PLC, AJB, AGC

#### Phone Features
- 6 VoIP accounts
- One-touch speed dial, redial
- Call forward, call waiting
- Call transfer, call hold
- Call return, group listening
- Mute, auto answer, DND
- 3-way conference call
- Direct IP call without SIP proxy
- Ringtone selection/import/delete
- Hotline, emergency call
- Set date time manually or automatically
- Dial plan, XML Browser, Action URL/URI
- Integrated Screenshots
- RTCP-XR
- USB port (2.0 compliant) Bluetooth earphone through BT40, Wi-Fi through WF40, USB call recording through USB flash drive
- Enhanced DSS key

#### Directory
- Local phonebook up to 1000 entries
- Black list
- XML/LDAP remote phonebook
- Intelligent search method
- Phonebook search/import/export
- Call history: dialed/received/missed/forwarded

#### IP-PBX Features
- Busy Lamp Field (BLF)
- Bridged Line Appearance (BLA)
- Anonymous call, anonymous call rejection
- Hot desking, voice mail
- Flexible seating
- Call park, call pickup
- Executive and Assistant
- Centralized call recording
- Visual voice mail

#### Display and Indicator
- 3.66” 240x120-pixel graphical LCD with backlight
- LED for call and message waiting indication
- Dual-color (red or green) illuminated LEDs for line status information
- Intuitive user interface with icons and soft keys
- Multilingual user interface
- Caller ID with name and number
- Power saving

#### Feature keys
- 8 line keys with LED
- 8 line keys can be programmed up to 21 paperless DSS keys (3-page view)
- 8 feature keys: message, headset, conference, mute, hold, transfer, redial, hands free speakerphone
- 4 context-sensitive “soft” keys
- 6 navigation keys
- Volume control keys
- Illuminated mute key
- Illuminated headset key

#### Interface
- Dual-port Gigabit Ethernet
- Power over Ethernet (IEEE 802.3af), Class 3
- 1 x USB port (2.0 compliant)
- 1 x RJ9 (4P4C) handset port
- 1 x RJ9 (4P4C) headset port
- 1 x RJ12 (6P6C) EHS port
- 1 x RJ12 (6P6C) EXT port
- Supports up to 6 Expansion Modules

#### Other Physical Features
- Stand with 2 adjustable angles
- Wall mountable
- External Yealink AC adapter (optional): AC 100~240V input and DC 5V/2A output
- Power consumption (PSU): 1.4-3.0W
- Power consumption (PoE): 17-7.0W
- Dimension (W*D*H): 265mm x 210mm x 170.5mm
- Operating humidity: 10-95%
- Operating temperature: -10°~50°C (+14°~122°F)

#### Management
- Configuration: browser/phone/auto-provision
- Auto provision via FTP/TFTP/HTTP/HTTPS for mass deploy
- Auto provision with PnP
- Zero-sp-touch, TR-069
- Phone lock for personal privacy protection
- Reset to factory, reboot
- Package tracing export, system log

#### Network and Security
- SIP v1 (RFC2543), v2 (RFC3261)
- Call server redundancy supported
- NAT traversal: STUN mode
- Proxy mode and peer-to-peer SIP link mode
- IP assignment: static/DHCP
- HTTP/HTTPS web server
- Time and date synchronization using SNTP
- UDP/TCP/DNS-SRV (RFC 3263)
- QoS: 802.1p/q tagging (VLAN), Layer 3 ToS DSCP
- SRTP for voice
- Transport Layer Security (TLS)
- HTTPS certificate manager
- AES encryption for configuration file
- Digest authentication using MD5/MD5-sess
- OpenVPN, IEEE802.1X
- IPv6
- LLDP/CDP/DHCP VLAN
- ICE

#### Package Features
- Package content:
  - Yealink SIP-T27G IP phone
  - Handset with handset cord
  - Ethernet Cable (1.5m CAT5E UTP Cable)
  - Stand
  - Quick Start Guide
  - Power Adapter (Optional)
  - Wall Mount Bracket (Optional)
- Qty/CTN: 5 PCS
- N.W/CTN: 6.6 kg
- G.W/CTN: 7.4 kg
- Giftbox size: 295mm x 224mm x 115mm
- Carton Size: 602mm x 308mm x 236mm

#### Compliance

[Certification Logos]

*Opus: Support 8 kHz (narrowband) and 16 kHz (wideband) sampling rate*
Yealink Optima HD Voice refers to the combination of software and hardware design as well as the implementation of wideband technology to maximize the acoustic performance. Coupled with advanced acoustic clarity technology such as full duplex, echo cancellation, adaptive jitter buffer etc. Creating an amazing face-to-face live experience.

A rich visual experience for applications
SIP-T29G supports vast productivity-enhancing feature such as XML Browser, SCA, BLF list, call forward, call transfer, 3-way conferencing, the 4.3 inch backlit color display enables rich visual presentation and easier navigation of the menu. Three pages of 10 flexible buttons are shown on the display can be programmed up to 27 various features.

Advanced connectivity and expandability
For network connectivity, the SIP-T29G comes with two Gigabit Ethernet ports, one of them suitable for Power over Ethernet. Supports a variety of device connections, including EHS headset and USB. A built-in USB 2.0 port can also be used for Bluetooth, Wi-Fi and USB recording.
Supports up to 6 Expansion Modules, adding up to 240 additional buttons with a screen based LCD display and LED system.
Specifications

Audio Features
• HD voice: HD handset, HD speaker
• Wideband codec: Opus*, G.722
• Codecs: G.722, G.711(A/µ), G.723,
G.729AB, G.726, iLBC
• DTMF: In-band, Out-of-band (RFC 2833) and SIP INFO
• Full-duplex hands-free speakerphone with AEC
• VAD, CNG, AEC, PLC, AJB, AGC

Phone Features
• 16 VoIP accounts
• One-touch speed dial, hotline
• Call forward, call waiting, call transfer
• Group listening, SMS, emergency call
• Redial, call return, auto answer
• 3-way conferencing
• Direct IP call without SIP proxy
• Ring tone selection/import/delete
• Set date time manually or automatically
• Dial plan
• XML Browser
• Action URL/URI
• Integrated screenshots
• RTCP-XR
• USB port (2.0 compliant) for:
  Bluetooth earphone through BT40,
  Contact synchronization through BT40,
  Wi-Fi through WF40,
  USB call recording through USB flash drive
• Enhanced DSS Key
• Directory
• Local phonebook up to 1000 entries
• Black list
• XML/LDAP remote phonebook
• Intelligent search method
• Phonebook search/import/export
• Call history: dialed/received/missed/forwarded

IP-PBX Features
• Busy Lamp Field (BLF)
• Bridged Line Appearance (BLA)
• Anonymous call, anonymous call rejection
• Hotdesking, voice mail
• Music on hold
• Message Waiting Indicator (MWI)
• Call park, call pickup
• Intercom, paging
• Call completion, call recording
• Flexible seating

Executive and Assistant
• Centralized call recording
• Visual Voice Mail

Display and Indicator
• 4.3” 480 x 272-pixel color display with backlight
• 16 bit depth color
• LED for call and message waiting indication
• Dual-color (red or green) illuminated LEDs for line status information
• Wallpaper
• Multilingual user interface with icons and soft keys
• Caller ID with name, number and photo
• Power saving
• Screensaver

Feature keys
• 10 line keys with LED
• 10 line keys can be programmed up to 27 various features (3-page view)
• 8 features keys: message, headset, conference, hold, mute, transfer, redial, hands-free speakerphone
• 4 context-sensitive “soft” keys
• 6 navigation keys
• Volume control keys
• Illuminated headset key

Interface
• Dual-port Gigabit Ethernet
• Power over Ethernet (IEEE 802.3af), class 0
• 1 x RJ9 (4P4C) handset port
• 1 x RJ9 (4P4C) headset port
• 1 x RJ12 (6P6C) EXT port
• Supports up to 6 Expansion Modules for an attendant console application

Other Physical Features
• Stand with 2 adjustable angles
• Wall mountable
• External Yealink AC adapter (optional):
  100~240V input and DC 5V/2A output
• Power consumption (PSU): 16-3.9W
• Power consumption (PoE): 2.1-5.7W
• Dimension (W*D*H): 244mm*233mm*185mm*54mm
• Operating humidity: 10~95%
• Operating temperature: -10~50°C (+14~122°F)

Compliance

*Opus: Support 8 kHz (narrowband) and 16 kHz (wideband) sampling rate
HD Audio
Yealink Optima HD Voice technology combines cutting-edge hardware and software with wideband technology for maximum acoustic performance. Being a totally open, highly versatile audio codec, Opus is designed to perform a higher HD audio quality than other wideband codecs in a high network bandwidth. However, if your current network quality is poor, Opus can provide you with a better audio quality than other narrowband codecs. And its hearing aid compatible (HAC) handset helps the hearing impaired hear more clearly.

Easy Customization and High Expandability
The SIP-T46S comes with two Gigabit Ethernet ports, one of which is suitable for Power over Ethernet (PoE). A built-in USB 2.0 port can also be used for Bluetooth, Wi-Fi and USB recording. The SIP-T46S supports up to six expansion models, for up to 240 additional buttons with a screen-based LCD display and LED system. Plus, it has three pages of buttons which can be programmed with up to 27 paperless DSS keys.

Efficient Installation and Provisioning
The Yealink T4S series supports efficient provisioning and effortless mass deployment. Yealink’s Redirection and Provisioning Service (RPS) and Boot mechanism helps you carry out the Zero Touch Provisioning without any complex manual settings. This makes the T4S series simple to deploy, easy to maintain and upgrade. Furthermore, a unified firmware and Auto-P template that applies to all T4S phone models (T41S, T42S, T46S and T48S), saves even more time and costs for businesses, and simplifies the management and maintenance.

Secure Transport and Interoperability
The SIP-T46S uses SIP over Transport Layer Security (TLS/SSL), which is the latest network security technology. It’s also compatible with leading soft switch suppliers.
### Specifications

#### Audio Features
- HD voice: HD handset, HD speaker
- Hearing aid compatible (HAC) handset
- Codecs: Opus*, G.722, G.711(A/µ), G.723.1, G.729AB, G.726, iLBC
- DTMF: In-band, Out-of-band (RFC 2833) and SIP INFO
- Full-duplex hands-free speakerphone with AEC
- VAD, CNG, AEC, PLC, AJB, AGC

#### Phone Features
- 16 VoIP accounts
- Call hold, mute, DND
- One-touch speed dial, hotline
- Call forward, call waiting, call transfer
- Group listening, SMS, emergency call
- Redial, call return, auto answer
- 3-way conferencing
- Direct IP call without SIP proxy
- Ringtone selection/import/delete
- Date time manually or automatically
- Dial plan, XML Browser, Action URL/URI
- RTCP-XR (RFC3611), VQ-RTCPXR (RFC6035)
- USB port (2.0 compliant) for: Bluetooth earphone through BT40, Contact synchronization through BT40, Wi-Fi through WF40, USB call recording through USB flash drive
- Enhanced DSS key

#### Directory
- Local phonebook up to 1000 entries
- Black list
- XML/LDAP remote phonebook
- Smart dialing
- Phonebook search/import/export
- Call history: dialed/received/missed/forwarded

#### IP-PBX Features
- Busy Lamp Field (BLF)
- Bridged Line Appearance (BLA)
- Anonymous call, anonymous call rejection
- Hot-desking, voice mail
- Flexible seating
- Call park, call pickup
- Executive and Assistant
- Centralized call recording
- Visual voice mail
- Call recording

#### Display and Indicator
- 4.3" 480 x 272-pixel color display with backlight
- 16 bit depth color
- LED for call and message waiting indication
- Dual-color (red or green) illuminated LEDs for line status information
- Wallpaper
- Intuitive user interface with icons and soft keys
- Multilingual user interface
- Caller ID with name and number
- Screensaver
- Power saving

#### Feature keys
- 10 line keys with LED
- 10 line keys can be programmed up to 27 paperless
- DSS keys (3-page view)
- 7 feature keys: message, headset, hold, mute, transfer, redial, hands free speakerphone
- 4 context-sensitive “soft” keys
- 6 navigation keys
- Volume control keys
- Illuminated mute key
- Illuminated headset key
- Illuminated hands-free speakerphone key

#### Interface
- Dual-port Gigabit Ethernet
- Power over Ethernet (IEEE 802.3af), class 3
- 1 x USB port (2.0 compliant)
- 1 x RJ9 (4P4C) handset port
- 1 x RJ9 (4P4C) headset port
- 1 x RJ12 (6P6C) EXT port: Supports up to 6 Expansion Modules for an attendant console application

#### Other Physical Features
- Stand with 2 adjustable angles
- Wall mountable
- External Yealink AC adapter (optional): AC 100°-240V input and DC 5V/2A output
- Power consumption (PSU): 1.9-4.0W
- Power consumption (PoE): 2.7-5.5W
- Dimension (W*D*H): 244mm*213mm*185mm*54mm
- Operating humidity: 10~95%
- Operating temperature: -10~50°C (+14~122°F)

#### Management
- Configuration: browser/phone/auto-provision
- Auto provision via FTP/TFTP/HTTP/HTTPS for mass deploy
- Auto-provision with PnP
- Device management
- Zero-sp-touch, TR-069
- Phone lock for personal privacy protection
- Reset to factory, reboot
- Package tracing export, system log

#### Network and Security
- SIP v1 (RFC2543), v2 (RFC3261)
- Call server redundancy supported
- NAT traversal: STUN mode
- Proxy mode and peer-to-peer SIP link mode
- IP assignment: static/DHCP/PPPoE
- HTTP/HTTPS web server
- Time and date synchronization using SNTP
- UDP/TCP/DNS-SRV (RFC 3263)
- QoS: 802.1P/Q tagging (VLAN), Layer 3 ToS DSCP
- SRTP for voice
- Transport Layer Security (TLS)
- HTTPS certificate manager
- AES encryption for configuration file
- Digest authentication using MD5/MD5-sess
- OpenVPN, IEEE802.1X
- IPv6, LLDP/CBP/DHCP VLAN, ICE

#### Package Features
- Package content:
  - Yealink SIP-T46S IP phone
  - Handset with handset cord
  - Ethernet Cable (2m CAT5E FTP Cable)
  - Stand
  - Quick Start Guide
  - Power Adapter (Optional)
  - Wall Mount Bracket (Optional)
- Qty/CTN: 5 PCS
- N.W/CTN: 7.6 kg
- G.W/CTN: 8.4 kg
- Giftbox size: 274mm x 255mm x 128mm
- Carton size: 660mm x 286mm x 263mm

#### Compliance
- Opus: Support 8 kHz (narrowband) and 16 kHz (wideband) sampling rate

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*Images and illustrations not provided in the text.*
ABOUT SHERWEB

SherWeb has nearly two decades of experience simplifying the cloud for MSPs. Today, more than 5,000 partners worldwide rely on our expertise in high-volume provisioning, migration and support. SherWeb is an Indirect CSP partner in Microsoft’s Cloud Solution Provider (CSP) program. This allows SherWeb to help partners go to market faster with Office 365, Dynamics 365 and Azure. You own the customer relationship, control the pricing and billing and set your own margins.

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Microsoft’s 2013 Global Hosting Partner of the Year.
This document has been prepared by SherWeb.