

SayHi™

ES CENE

DS412P Dual-module IP PHONE

Technical Manual



GUANGZHOU ESCENE COMMUNICATION CO.,LTD
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www.escene.cn

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1. General Comments

ESCENE had bright out DS412P dual-module ip phone for corporate customer. It provide both VoIP and PSTN network to meet the high-end customers high avaiability demand and efficient work.

DS412PPE IP Phone is a fashionable, beautifully shaped and high-tech product. Its excellent speech quality gives you an unprecedentedly comfortable talking and its rich function keys make the operation very convenient. One key dial can be easily achieved with proper settings.

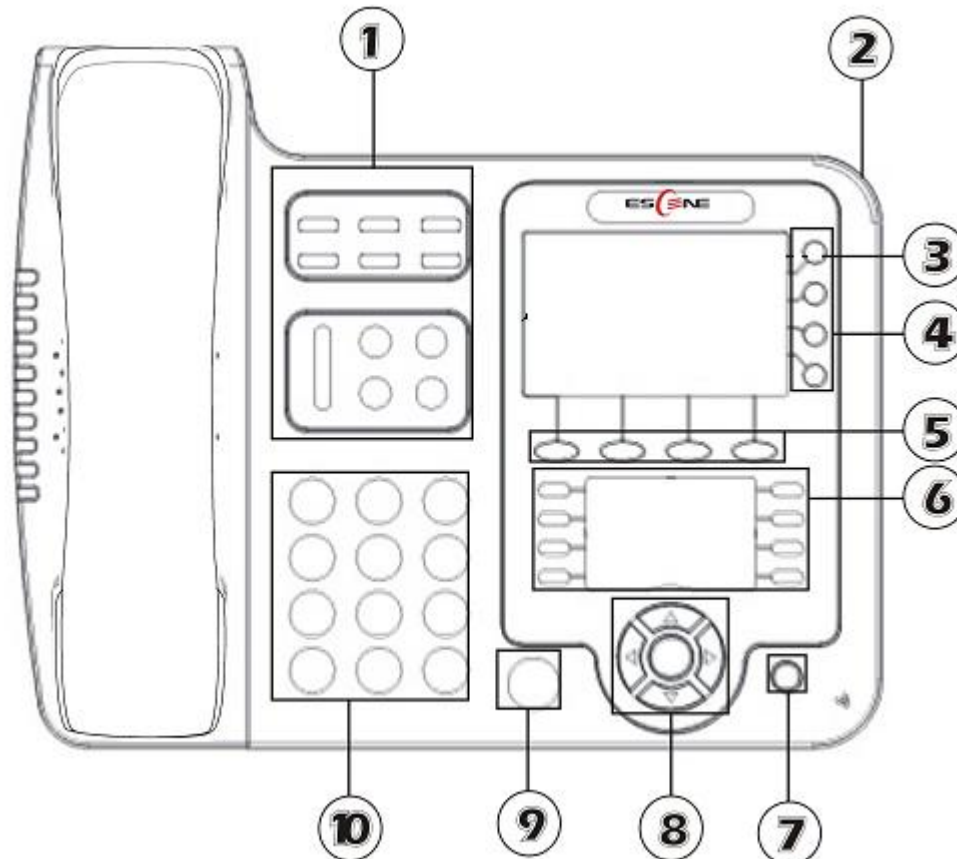
DS412PPE IP Phone support 4 accounts registering and multi call management. Call Waiting, Call Queuing and Call Forward can be well implemented; meanwhile, it makes conference to be created very quickly. No matter how busy the calls will be, DS412PPE IP Phone can easily satisfy the requirement.

DS412PPE IP Phone supports 6 extend modules that totally contain 192 programming buttons. With the Busy Lamp Field (BLF) function, operators can manage and monitor the calls more efficiently. It provides headset jack that compatible with professional microphone headsets, which will finely satisfy the call centre.



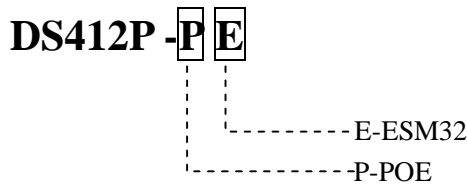
2. Product Appearance and models

(1) Product Appearance



- ① Function Key Area(Simple, convenient, fast)
 - ② Incoming call Indicator light
 - ③ Caller display(Support Chinese/English display, Caller info, Phone status, etc)
 - ④ Line Keypad (Line Status, Line Switch, Speed Dial, Call Queuing)
 - ⑤ Software keypad(Operation screen shortcut, user-defined keyboard shortcuts)
 - ⑥ Programmable Keypad (BLF, BLA, Speed Dial)
 - ⑦ Delete key
 - ⑧ Navigation keypad (arrow keys, shortcut keys, confirm key)
 - ⑨ Hands-free key
 - ⑩ Dial keypad (Figures, Chinese alphabet, English alphabet)
- (1) Function keys include: headset key, closed-tone key, message key, menu key, conference key, transfer key, redial key, maintaining key.
- (2) Navigation keys: up key, down key, left key, right key, confirm key. Up key "high-speed call list" shortcut , down keys "missed calls list" shortcut , left key "have received call list" shortcut .
- (3) Programmable keypad: 8 programmable keys. Support BLF, high-speed dial and other functions.

(2) Model Rules Description



3. Product Features:

- I Dual-module (VoIP+PSTN) ports**
 DS412PE Dual-module IP PHONE can provide both PSTN and VOIP network work together, and meet customers high availability demand and efficient work.
- I Support Chinese display**
 240*160 Pixel screen support Chinese display, include Chinese phonebook and interface setting, it is easy to use for Chinese.
- I Clear voice**
 DS412PPE through the unique voice processing technology that enables voice calls for more clarity and realistic, and communication more fluent.
- I Advanced Call Process**
 Support 4 lines bicolor indicator light circuit, managing two lines at the same time, carrying out call queuing and circuit switch, it's also convenient for teleconference and call transfer, meet the communication requirement at the busy time.
- I Support 8 Programmable Keys**
 Programmable keys can be defined as speed call key or other functional key to the appointed contact for improving the operating efficiency, 8 pieces Programmable Keys support the indicator light in busy line.
- I Enterprise Address Book Application**
 Support business contacts
 private phone book applications, to help with flowers quickly find the call number .
- I Extend Modules**
 Supports 6 extend modules that totally contain 192 programming buttons. With the Busy Lamp Field function, operators can manage and monitor the calls more efficiently.
- I PoE Support and AC power adapter**
- I Support HTTP/TFTP/FTP Auto-provision/TR069 upgrade software**

4. Technical Features

Item	DS412PPE
Screen	Grayscale LCD with background light
	240*160 pixel

Language	English, Chinese
Line	4 lines for VoIP and PSTN
Function Keys	4 Soft keys 4 Line keys 6 Navigation keys (Arrow button, OK button, C button) Volume adjust , Hands-free, Mute, Headset, Message Menu, Directory, Service, Hold, Redial, Conference, Transfer
VoIP Protocol	SIP 2.0
Network Protocol	HTTP、BOOTP、FTP、TFTP、IEEE 802.1Q、*IEEE 802.1X
Codec	G.723.1 (5.3K 6.4K b/S)、G.729 A/B(8Kb/s)、G.711 A/U (64Kb/S)、G722
QoS	TOS, Jiffer Buffer, VAD, CNG, G.168 (32ms)
Network	2×RJ45 10/100M Ethernet Interfaces (LAN/PC) IP Assignment: static IP, DHCP, PPPoE DNS Client, VPN(L2TP), VLAN
Speech	HD Codec, HD Handset Handle, Headset and Hands-free mode available Support call centre headsets and PC headsets Separated 9 Level Volume Adjustment
Call Processing	Line Status Indicator Multi Account Always Forward, Busy Forward, No-answer Forward Hotline number (Immediately/Delay) Call Waiting, Call Queuing, Line Switching Call Forward, Call Transfer, Call Holding, Call Pickup, *Callback One Key Dial, Redial Phone directly speed dial, Call record direct dial 3-way conference DnD, *Blacklist Voice mail, Voice Prompt, Voice Message BLF, BLA
Expansion Interface	EXT: ESM32 programmable key module *USB port
Application	Support PSTN and VoIP Public phone directory Private phone directory
Security	Login LCD by password Login the website by password Signaling encryption Media encryption
Management	Upgrade: HTTP/TFTP/FTP Auto-provision/TR069 Configurations: Phone/HTTP/Auto-provision/TR069 Debug: Telnet/Phone/Web

Power Supply	Power adapter:AC100~240V input and DC 12V/1A output PoE(IEEE 802.af)
Specification	Storage Temperature: 0°C ~ 60°C Operating Humidity: 10%~90% Size:287mm*214mm*90mm Net weight:1.37kg
Package Features	Qty/CTN:10 PCS N.W/CTN:13.7kg G.W/CTN:14.2kg Measurement: 0.081CBM Carton Meas: 470mm*450mm*290mm
Certifications	CE、FCC、RoHS

Note: “*” Sign means function has not been published yet.



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