External Engineering Spec For DPH-150SE (Hw:B1) Series IP Phones



Model Name:

D-Link DPH-150SE (Hw: B1)

Version: 1.0 2008/04/08

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1.0 Product Introduction

DPH-150SE (B1) IP Phones are mainly designed for general office users (from VSE, SOHO to SMB) in VoIP communication. With sophisticated and elegant design, this platform has high performance and can offer versatile features and specifications to meet different environment requirements. It can be installed on LAN /DSL/Cable network environment and registered to SIP registrar Server(s), soft switch(es), IP-PBX(s), or IMS-based system and let SIP-enabled terminals to communicate with. Beyond this, user's PC can be connected to this phone instead of LAN directly.

The phone comes with a plastic Housing and some accessories, including handset, handset cord, keypad, keys and wall-mounting kit. A LCD display on the panel provides direct visual interface with user. User can use keypad/LCD or Web browser to configure this phone.

2.0 Appearance and User Interface Layout

2.1 Key and LED layout

Keys: Dial pad 12 keys Fixed functional keys: 9 keys Navigator keys: 4

Programmable Keys: 12

LEDs:

Status x 1 Speaker x 1 Hold x 1



2.2 The Layout of I/O Ports

WAN Port: to connect to 10/100Mbps Ethernet (toward Internet);

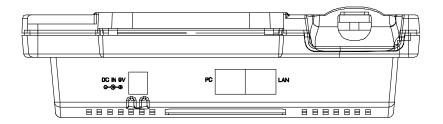
Supports IEEE 802.3af Power over Ethernet

LAN Port: to connect to 10/100Mbps Ethernet (toward a local PC)

9V DC IN Jack: to connect to local power with a switching power adaptor.

Engineering Service Port: NOT used by end user(for Vendor only) **Handset Hook switch:** for hang on/off control on handset cradle

Handset Jack: to connect with a handset



3.0 Hardware & Physical Specifications

Hardware:

Model	Description				
DPH-150SE (B1)	Standard SIP phone with Power Adaptor &				
	PoE support				
Key Components	Description				
CPU	Silicon Data 9218				
DSP	Silicon Data 8616				
SDRAM	16MB				
Flash	4MB				
Port Name	Functions				
	1 x 10/100 BaseT ports RJ45				
WAN	Compliant to following standards:				
IVAIN	IEEE 802.3/802.3u				
	Support Full-Duplex operations				
	1 x 10/100 BaseT ports				
LAN	Compliant to following standards:				
	IEEE 802.3				
	Support Full-Duplex operations				

Physical:

Model	Physical Data
Dimension	200mm x 220mm x 100mm
Net Weight	860g
Power Adaptor	AC-DC Switching Power switching
	Wall-Mount type
	Input: 100~120, 220~240VAC
	Output: DC 9V / 1000mA
	Max. Watt: 9 Watt.
PoE	EEE802.3af PoE through WAN interface
Power Consumption	Typical: 2.8 Watt (Standby)
	Max.: 3.0 Watt (Talking)
Temperature	Operating: 0°C to 40°C
	Storage: -20°ℂ to 60°ℂ
Related Humidity	Operating: 20% to 80 % (no-condensing)
	Storage: 15% to 85% (non-condensing)

4.0 Software Specifications

Software Components:

Part Item Name	Description	
Operating System	Linux Kernel 2.4.17	

SIP Stack	ACT SIP stack
Software Platform	Linux software platform
Software Requirement	Description
Browser for Web of Phone	Microsoft Windows IE, or
	PC-based general web browser
Auto Provinianing Conver	General compatible TFTP, FTP & HTTP Server
Auto Provisioning Server	Software

Software Specifications:

Main Parts	Specification Details

Keypad Features Menu П Phone Book 4 Navigator Keys for navigating in configuration; volume adjustment of Ringer, Speaker phone & Handset; OK & Cancel MWI Conference Mute Function (stay with Mute; integrated with numeric keys for configuration and information) Transfer Redial (Redial and the entry to access call history) Hold Speaker 12 numeric keys with star & pound key П 12 programmable keys for Line, One-Touch Dial, Park & DSS/BLF **Phone Features** Multi-user (4 SIP accounts) Caller ID display Call History: 20 Missed Calls, 20 Received Calls, 20 Dialed Calls Phone book (up to 200 contact names and phone number) Day/Time display Call timer display 9 Selective Ring tones (4 tones, 4 melodies & one mp3) 10 Speed dial number Incoming call Indicator Password control for Configuration Pre-dial before sending Hot Line Multi-Line Internet Radio MP3 Ringer **Voice Codec**

G.711a/u (64k bps)

G.729A/B(8 k bps)

G.723.1	(*Optional)
Advance Voice Qua Silence Suppression Acoustic Echo Canc Voice Activation Dete Comfort Noise Gene Jitter Buffer DTMF Transmitter(S Packet Lost Concean	ellation (G.167) ection(VAD) ration IP info, Transparent, RTP 2833 relay)
SDP RFC 3266 RTP RFC 1889 IP assignment: DHC	related RFC standard in Appendix A P, Static IP and PPPoE c port mapping (for NAT traversal) Auto Provision
•	Attend & Early AttendedTransfer) No answer, Unconditional) on nces ejection dication
Network Capability QoS: IEEE 802.1Q 8 DiffServ (DSCP)/ToS Full range VLAN ID S Class of Service Sup	k IEEE 802.1p Compliant S Support,
LCD/Keypad UI in E HTTP(WEB) UI in Er FTP/TFTP/HTTP for	Network Management nglish & Russian version nglish version Firmware remote update ng for firmware and profile upgrade

Emergency upgrade if firmware corrupted

5.0 Certifications/Test Reports Requirement

EMC/RF Certificates and Test Reports

EMC Test Report	Class A	Class B	Remarks
CE Report (EN55022/55024)		V	
FCC Report (FCC CFR 47, Part 15B/ ICES-003)		V	
RoHS			V (certificated)
WEEE			

Safety Certificates and Test Reports

Certifications	Standards	Remarks		
CB (IEC 60950-1)	V			

6.0 Package Contents & Weighting

Model	Content Description
DPH-150SE (B1)	1 x IP phone main set
	1 x Handset Cord
	1 x Handset
	1 x Quick Install Guide (paper printed)
	1 x CD-ROM
	1 x Ethernet CAT5 Cable
	1 x Wall-mount kit
	1 x Switching power adaptor (optional for different country/area)
	1 x Gift box
	Unit Packing Weight: 1.4Kg
	Size of Gift box:302mm x 209mm x 89mm
	The number of unit per carton: 5pcs
	Carton Packing Weight:8Kg
	Size of Carton : 45.5 x 22.6 x 32.4 cm3

Appendix A: Compliant RFC standards

RFC 1769 Simple Network Time Protocol (SNTP)

RFC 1889 RTP: A Transport Protocol for Real-Time Applications

RFC 2131 Dynamic Host Configuration Protocol

RFC 2327 SDP: Session Description Protocol

RFC 2782 A DNS RR for specifying the location of services (DNS SRV)

RFC 2833 RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals RFC 2976 The SIP INFO Method

RFC 3261 SIP: Session Initiation Protocol

RFC 3262 Reliability of Provisional Responses in the Session Initiation Protocol (SIP)

RFC 3263 Session Initiation Protocol (SIP): Locating SIP Servers

RFC 3264 An Offer/Answer Model with the Session Description Protocol (SDP)

RFC 3265 Session Initiation Protocol (SIP)-Specific Event Notification

RFC 3311 The Session Initiation Protocol (SIP) UPDATE Method

RFC 3315 The Session Initiation Protocol (SIP) Refer Method

RFC 3323 A Privacy Mechanism for the Session Initiation Protocol (SIP)

RFC 3325 Private Extensions to the Session Initiation Protocol (SIP) for Asserted Identity within Trusted Networks

RFC 3361 Dynamic Host Configuration Protocol (DHCP-for-IPv4) Option for Session Initiation Protocol (SIP) Servers

RFC 3420 Internet Media Type message/sipfrag

RFC 3428 Session Initiation Protocol (SIP) Extension for Instant Messaging

RFC 3489 STUN - Simple Traversal of User Datagram Protocol (UDP) Through

Network Address Translators (NATs)

RFC 3665 Session Initiation Protocol Basic Call Flow Examples

RFC 3842 A Message Summary and Message Waiting Indication Event Package for the Session Initiation Protocol (SIP)

RFC 3891 The Session Initiation Protocol (SIP) "Replaces" Header

RFC 3892 The Session Initiation Protocol (SIP) Referred-By Mechanism

RFC 3960 Early Media and Ringing Tone Generation in the Session Initiation Protocol (SIP)

RFC 4028 Session Timers in the Session Initiation Protocol (SIP)

RFC 4325 An INVITE-Initiated Dialog Event Package for the Session Initiation Protocol (SIP)

draft-ietf-sipping-service-examples-10 Session Initiation Protocol Service Examples draft-worley-sipping-dialog-01 Guidelines for Implementing the Dialog Event Package in User Agents

draft-worley-sipping-pickup-01 Call Pickup Examples in SIP

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