

# SL4050/B12/E SmartLink Series 12-Line VoIP SIP Phone SL4050/B2/E SmartLink Series 2-Line VoIP SIP Phone

# Quick Start Guide





#### CE Important This is a Class

This is a Class B device and is intended for use in a light industrial or residential environment. It is not intended nor approved for use in an industrial environment. The Model SL4050 phones are not approved for, and are not intended for, direct connection to the Public Switched Telephone Network (PSTN).

Part Number: 07MSL4050B-QS, Rev. A Revised: September 11, 2008 Sales Office: +1 (301) 975-1000 Technical Support: +1 (301) 975-1007 E-mail: support@patton.com WWW: www.patton.com



- This device contains no user serviceable parts. The equipment shall be returned to Patton Electronics for repairs, or repaired by qualified service personnel.
- The external power adapter shall be a listed Limited Power Source. Ensure that the power cable used meets all applicable standards for the country in which it is to be installed, and that it is connected to a wall outlet which has earth ground. The mains outlet that is utilized to power the devise shall be within 10 feet (3 meters) of the device, shall be easily accessible, and protected by a circuit breaker.
- Do not work on the system or connect or disconnect cables during periods of lightning activity.



In accordance with the requirements of council directive 2002/96/EC on Waste of Electrical and Electronic Equipment (WEEE), ensure that at endof-life you separate this product from other waste and scrap and deliver to the WEEE collection system in your country for recycling.

# 1.0 Before you begin

The VoIP SIP phone can be set up using the keypad and a web browser, such as Internet Explorer. If you purchased this product to make a VoIP call, you must have either an Ethernet-based Cable or a DSL modem with an active connection to the Internet.

#### 1.1 Check your package contents

The following items are included in the SmartLink 4050/B12 and SmartLink 4050/B2 packaging. Contact your supplier immediately if an item is missing.



SmartLink 4050/B12 VoIP SIP Phone



Ethernet cable, 5-foot (1.5-meter), Qty: 1



**Power Adaptor** 



SmartLink 4050/B2 VoIP SIP Phone



SmartLink documentation CD-ROM



Wall/Desk mounting plate



ltem	Description
2 x 16 LCD Display	Displays menu, time, clock, name, phone number, call status
LED Indicator	Indicates that phone is currently in use or ringing
Up	Cycle through the phone menu, adjust volume
3-Way Conference	Enable 3-way conference
OK/Right	Confirm setting change, exit menu, dial, save changes
Menu	Access the phone menu
Mute/Function	Disable user's microphone so that the person on the other line can not hear anything, access the language selection, access the time format
Transfer	Transfer the person you are currently having a conversation to another line
Redial/Call History	Redial last dialed number, access redial menu
Hold	Place the person on the other line on hold, answer call waiting
Speaker Phone	Enable user to use the phone without using the handset
Voice Message	Check voice message
Down	Cycle through the phone menu, adjust volume
Cancel/Left	Deny changes, cancel phone calls, ignore phone calls, backspace
Phone Book	Access the phonebook
Numeric Keypad	Input IP/phone number/alphabet characters
Local Multiline	Switch to different lines



Item	Description		
2 x 16 LCD Display	Displays menu, time, clock, name, phone number, call status		
LED Indicator	Indicates that phone is currently in use or ringing		
Up	ycle through the phone menu, adjust volume		
3-Way Conference	Enable 3-way conference		
OK/Right	Confirm setting change, exit menu, dial, save changes		
Menu	Access the phone menu		
Mute/Function	Disable user's microphone so that the person on the other line can not hear anything, access the language selection, access the time format		
Transfer	Transfer the person you are currently having a conversation to another line		
Redial/Call History	Redial last dialed number, access redial menu		
Hold	Place the person on the other line on hold, answer call waiting		
Speaker Phone	Enable user to use the phone without using the handset		
Voice Message	Check voice message		
Down	Cycle through the phone menu, adjust volume		
Cancel/Left	Deny changes, cancel phone calls, ignore phone calls, backspace		
Phone Book	Access the phonebook		

### **1.4 Numeric Keypad Definitions**

You can use alphanumeric characters to enter details into the Phone Book, to create text and e-mail messages. The table below shows the characters that you can enter in the different text modes.

V	Text	Mode	V····	Text	Mode
кеу	Normal (ABC)	Numeric (0-9)	ĸey	Normal (ABC)	Numeric (0-9)
		1	7 PORS	pqrsPQRS	7
2 ABC	abcABC	2	8	tuvTUV	8
3 DEF	defDEF	3	9 WXYZ	wxyzWXYZ	9
4 GH	ghiGHI	4		@*#() %&+/\$,	0
5	jklJKL	5	*.	•	*
6	mnoMNO	6	#		#

## 2.0 Installing the VoIP SIP phone



The interconnecting cables shall be acceptable for external use and shall be rated for the proper application with respect to voltage, current, anticipated temperature, flammability, and mechanical serviceability.

Plug one end of the Ethernet cable included with the VoIP SIP phone into the WAN port on the SIP phone (see figure 1 for SL4050/B12/E or figure 2 on page 8 for SL4050/B2/E). Plug the other end of the cable into the xDSL modem or cable modem (or into an optional router or hub).



Do not work on the system or connect or disconnect cables during periods of lightning activity.



Figure 1. Connecting the SL4050/B12/E SIP Phone

If you will not be connecting a PC to the phone, go to step 3. Otherwise, connect an Ethernet cable into the LAN port of the SIP phone (see figure 1 on page 7 for SL4050/B12/E or figure 2 for SL4050/B2/E). Plug the other end of the cable into the Ethernet port on the PC.



Figure 2. Connecting the SL4050/B2/E SIP Phone

Plug the power adapter barrel connector into the power connector on th SIP phone (see figure 1 on page 7 for SL4050/B12/E or figure 2 for SL4050/B2/E). Plug the other end of the power adapter into an AC electrical outlet.

# 3.0 Setting up the VoIP SIP phone



Figure 3. Menu summary, page 1 of 2



Figure 4. Menu summary, page 2 of 2

# 4.0 Logging in to the web interface

The configuration menu can be accessed using a web browser.

- 1. Open a web browser (Internet Explorer, Netscape Navigator, or equivalent).
- 2. Type in the IP address of the phone followed by: 9999 (for example http://192.168.1.1:9999).
  - Note The IP address is provided by your Internet service provider (ISP). If your ISP supports DHCP, you can obtain the IP address from your phone.

Press + 9 to get the IP address. You can also login from the LAN port with *http://* 192.168.15.1:9999.

The login window displays (see figure 5).

This secure Web Site (at ) requires you to log on. Please type the User Name and Password that you use for A	
Please type the User Name and Password that you use for A	
	ACT-VOIP
User Name	•
Pessword	-
Eave this password in your password list	

Figure 5. Login window

- 3. Enter a User Name and Password. Leave the user name and password blank if you are installing the phone for the first time.
- 4. Click OK. The following screen displays after logging in:

PRITUR Sma	rtLink 4050 VoIP Phone	Version: V.01.51.08 OSP Version: v1.00 a2217
www.patton.com	MAC	Address: 00.D0.E9.40.94.
Management	Web Login Setting	1
Network Settings	User Name	
QoS Settings	Password Chi	ange
SIP Settings	Date/Time	
SIP Account Settings	Get Time From C SIP Server C NTP Se	rver
NAT Traversal Settings Voice Settings	NTP Server IP 203.216.1.47	
Phone Settings MP3 Ring	Time Zone GMT+08:00) Beijing,	Singapore, Taipei 🗾
SMS Call Tracing Log	Submit Reset	
Phone Book Music Station		
Speed Dial		
Auto Provision		
Save/Reload Settings		
Documentation		
Restart System		

SmartLink 4050 Series Quick Start Guide

#### 4.1 Network Settings - DHCP

Click on Dynamic host configuration protocol (DHCP) for IP address information that is obtained automatically from your ISP. The **DNS Server** information is obtained from your ISP.

DHCP / PPPoE / Static IP		
• DHCP O PPPoE O Static IP		
DNS Setting		
DNS Server 1	0.0.0.0	
DNS Server 2	0.0.0.0	
MAC Address		
WAN MAC	00.A0.BA.03.CB.D6	
LAN MAC	00.A0.BA.03.CB.D7	

Submit	Reset
--------	-------

Figure 7. DHCP configuration window

#### 4.2 Network Settings - PPPoE

Select **PPPoE** if your ISP uses PPPoE. Most DSL users use PPPoE.

DHCP / PPPoE / Static IP		
C DHCP O PPPoE C Static IP		
PPPoE ID		
PPPoE Password		
DNS Setting		
DNS Server 1	0.0.0.0	
DNS Server 2	0.0.0.0	
MAC Address		
WAN MAC	00.A0.BA.03.CB.D6	
LAN MAC	00.A0.BA.03.CB.D7	
Submit Reset		

Figure 8. PPPoE configuration window

- PPPoE ID: PPPoE ID/username provided by your ISP
- PPPoE Password: Password for the PPPoE ID
- DNS Server 1-2: DNS address provided by your ISP

#### 4.3 Network Settings - Static IP

DHCP / PPPoE / Static IP			
C DHCP C PPPoE O Static IP			
IP Address	10.10.200.49		
Router IP	10.10.1.51		
Subnet Mask	255.255.0.0		
DNS Setting			
DNS Server 1	0.0.0.0		
DNS Server 2	0.0.0.0		
MAC Address			
WAN MAC	00.A0.BA.03.CB.D6		
LAN MAC	00.A0.BA.03.CB.D7		
Submit Reset			

Select Static IP if all Wide Area Network IP information is provided to you by your ISP.

Figure 9. Static IP configuration window

- IP Address: IP address assigned to you by your ISP
- Router IP: Router IP address
- Subnet Mask: Subnet mask
- DNS Server 1-2: DNS server address provided by your ISP

Note **RESTART** the system for new settings to take effect after you modify the IP address.

### 4.4 SIP Settings

Click on **SIP Settings** to display the configuration window (see **figure 10**). Session initiation protocol (SIP) is the most popular VoIP standard. It enables two or more people to make phone calls, share multimedia, and make multimedia conference over the Internet.

Note You should have an administrator set up these settings for you or obtain the information directly from your SIP service provider.

SIP Phone Setting				
SIP Phone Port Number	5060	[1024 - 65535]		
Registrar Server				
Registrar Server Domain Name/IP Address	10.10.2	00.6		
Registrar Server Port Number	5060	[1024 - 65535]		
Authentication Expire Time	3600 s	ec. (Default: 3600 sec.)[60 - 9999]		
Outbound Proxy Server				
Outbound Proxy Domain Name/IP Address				
Outbound Proxy Port Number	5060	[1024 - 65535]		
Send messages via Outbound Proxy	O Disa	ble C Enable		

Figure 10. SIP Settings window

- SIP Phone Port Number: SIP phone listening port
- Registrar Server Domain Name/IP Address: Registrar server domain name or IP address.
- Registrar Server Port Number: Registrar server listening port
- Authentication Expire Time: The time that the SIP registration expires. The phone must send SIP REGIS-TER to keep the registration at half of the setting time.
- Outbound Proxy Domain Name/IP Address: Outbound proxy domain name or IP address.
- Outbound Proxy Port Number: Outbound proxy listening port
- Send messages via Outbound Proxy: Select Enable to send all SIP requests through Outbound Proxy

### 4.5 SIP Account Settings

Click on **SIP Account Settings** to display the configuration window (see **figure 11**). You can have up to four accounts — that is, the SIP phone can receive calls from up to four different phone numbers.

SIP Account Setting				
Default Account Account 1				
Account 1 Setting				
Account Active	C Disable C Enable			
Display Name	555			
SIP User Name	555			
Authentication User Name	555			
Authentication Password	***			
Ring Type	Default 🔽			
Register Status	Register			

Figure 11. SIP Account Settings window

- Default Account: When you dial a number, the default account is used to dial. User Name of default account is displayed on the receiver's IP phone.
- Account Active: Enable or disable this account.
- Display Name: Name displayed on the LCD of called party.
- SIP User Name: The number in the URI displayed on the LCD for the caller.
- Authentication User Name: User name to log into the SIP server.
- Authentication Password: Password to log into the SIP server.
- Ringer Type: Eight types of tone and melody can be selected for the specified account
- Register Status: Displays if the current phone is registered or unregistered with SIP server.

## 5.0 Making a phone call

### 5.1 Dialing an IP address



### 5.2 Dialing a SIP number

Note You must register with a SIP server before using a SIP number.

1. Lift the handset





2. Dial a SIP number. For example, to dial 1866 press



3. Press  $\checkmark$  or wait until the timer expires to dial.

# 6.0 Operating the Internet Radio

- 1. Press (+++) to turn on the Internet radio.
- 2. Press not and to choose a preferred station.
- 3. Press  $\overbrace{Cancel}$  to turn off the Internet radio.

#### 6.1 Key Definitions for Internet Radio

Key	Definition	Key	Definition	
••••	Turn on the Internet Radio		Increase / decrease the volume	
€ SK	Pause / Play	Menu	Display the name of the current station	
Cancel	Turn off the Internet Radio	Phone Book	Tune the Internet Radio to the preferred station	
Numeral Keys	The ten numeral keys 0, 1~9 are the quick access keys to the first ten preferred stations on web configuration "Music Station".			

#### 6.2 About Internet Radio

- All the keys related to the Internet Radio are described in the table above. Those key functions will only be available when the phone is hung up. If the phone is hung on, those key functions will back to the original designed which has stated in Page.7.
- When the phone is receiving the incoming call, the Internet Radio function will be turned off automatically.
- When the user picks up the handset or presses "SPEAKER" to make a phone call, the Internet Radio will be also turned off automatically.
- Please turn off the Internet Radio before you do the next steps as below:
- Use pre-dialing to make a phone call
- Enter MENU to configure
- Access Phone Book
- Adjust the Ringer Volume
- When the user is listening to the Internet Radio, the phone will have the current song and singer's name showing on the screen.

# 7.0 Additional Information

The complete *SmartLink 4050 Getting Started Guide* is located on the CD-ROM that came with your SIP phone. It can also be downloaded for viewing from **www.patton.com**.

### **A.O Compliance Information**

#### A.1 Compliance

EMC:

- FCC Part 15, Class B
- EN55022, Class B
- EN55024

Safety:

• EN60950-1

**PSTN Regulatory Compliance:** 

- FCC Part 68
- CS-03
- AS/ACIF S004
- AS/ACIF S040

### A.2 Radio and TV Interference (FCC Part 15)

This equipment generates and uses radio frequency energy, and if not installed and used properly-that is, in strict accordance with the manufacturer's instructions-may cause interference to radio and television reception. This equipment has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection from such interference in a commercial installation. However, there is no guarantee that interference will not occur in a particular installation. If the equipment causes interference to radio or television reception, which can be determined by disconnecting the cables, try to correct the interference by one or more of the following measures: moving the computing equipment away from the receiver, re-orienting the receiving antenna, and/or plugging the receiving equipment into a different AC outlet (such that the computing equipment and receiver are on different branches).

### A.3 CE Declaration of Conformity

We certify that the apparatus identified in this document conforms to the requirements of Council Directive 1999/5/EC on the approximation of the laws of the member states relating to Radio and Telecommunication Terminal Equipment and the mutual recognition of their conformity.

The safety advice in the documentation accompanying this product shall be obeyed. The conformity to the above directive is indicated by the **CE** sign on the device.

### A.4 Authorized European Representative

D R M Green, European Compliance Services Limited. Oakdene House, Oak Road , Watchfield, Swindon, Wilts SN6 8TD, UK

### A.5 FCC Part 68 (ACTA) Statement

This equipment complies with Part 68 of FCC rules and the requirements adopted by ACTA. On the bottom side of this equipment is a label that contains-among other information-a product identifier in the format US: AAAEQ##TXXXX. If requested, this number must be provided to the telephone company.

The method used to connect this equipment to the premises wiring and telephone network must comply with the applicable FCC Part 68 rules and requirements adopted by the ACTA.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

If trouble is experienced with this equipment, for repair or warranty information, please contact our company. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is resolved.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

### A.6 Industry Canada Notice

This equipment meets the applicable Industry Canada Terminal Equipment Technical Specifications. This is confirmed by the registration number. The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

This Declaration of Conformity means that the equipment meets certain telecommunications network protective, operational and safety requirements. The Department does not guarantee the equipment will operate to the user's satisfaction. Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. In some cases, the company's inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above condition may not prevent degradation of service in some situations. Repairs to some certified equipment should be made by an authorized maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment. Users should ensure for their own protection that the ground connections of the power utility, telephone lines and internal metallic water pipe system, are connected together. This protection may be particularly important in rural areas.

### **Copyright statement**

Copyright © 2008, Patton Electronics Company. All rights reserved.

The information in this document is subject to change without notice. Patton Electronics assumes no liability for errors that may appear in this document.

#### Trademarks statement

The term *SmartLink* is a trademark of Patton Electronics Company. All other trademarks presented in this document are the property of their respective owners.

### Patton support headquarters in the USA

- Online support: Available at www.patton.com
- E-mail support: E-mail sent to support@patton.com will be answered within 1 business day
- Telephone support: Standard telephone support is available five days a week from 8:00 am to 5:00 pm EST (1300 to 2200 UTC/GMT) — by calling +1 (301) 975-1007
- Support via VoIP: Contact Patton free of charge by using a VoIP ISP phone to call sip:support@patton.com
- Fax: +1 (253) 663-5693

### Alternate Patton support for Europe, Middle East, and Africa (EMEA)

- Telephone support: Standard telephone support is available five days a week from 8:00 am to 5:00 pm CET (0900 to 1800 UTC/GMT) — by calling +41 (0)31 985 25 55
- Fax: +41 (0)31 985 25 26
  - Note For additional service and support information, refer to the "Contacting Patton for assistance" chapter of the *SmartLink 4050 Series Getting Started Guide* located on the CD-ROM that came with your SIP phone or available online at **www.patton.com**.

For additional warranty, trademark, compliance, and technical support information, refer to the *SmartLink 4050 Series Getting Started Guide* located on the CD-ROM that came with your SIP phone or available online at www.patton.com.