

ST2022 SIP



Thomson Telecom

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European Community Declaration of Conformity

This equipment complies with the requirements relating to electromagnetic compatibility, EN55022 Class B for ITE and EN55024.

This meets the essential protection requirements of the European Council Directive 89/336/EEC on the approximation of the laws of the Member States relating to electromagnetic compatibility.

Thomson Telecom declares that this ST2022 MGCP IP Phone is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

You can download the declaration of conformity on www.speedtouchpartner.com.

The CE logo involves the conformity of the product with the essential requirements of implemented directives.

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Northern America Federal Communications Commission (FCC) Statement

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions in this manual, may cause interference to radio communications. This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Subpart J of Part 15 of FCC rules, which are designed to provide reasonable protection against radio interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user, at his own expense, will be required to take whatever measures are necessary to correct the interface.

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TALKING MODE & OPERATIONS	ERREUR ! SIGNET NON DEFINI.
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OPERATION OF OFF HOOK	ERREUR ! SIGNET NON DEFINI.
OPERATION OF ON HOOK	ERREUR ! SIGNET NON DEFINI.
OPERATION OF MODE SWITCH DURING CALL	ERREUR ! SIGNET NON DEFINI.
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I. Product overview and connections

Connections



Connecting to the Network and the PC

The ST2022 MGCP IP Phone has 2 RJ-45 ports that each support 10/100 Mbps full duplex Ethernet connection to external devices- Network port and access port (one for PC and one for LAN).

Network Port (10/100LAN)

Use the Ethernet cable to connect the LAN port to an Internet equipment, such as a hub, switch. Or directly to the Network. In Power over Ethernet (PoE) office environment, the IP phone can be powered from a switch via Ethernet cable, in which case the external power adaptor is not needed.

Access port (10/100PC)

Use the Ethernet cable to connect a network device, such as a computer to the PC port on the back of your phone.

Powering up the Phone

The ST2022 could be powered by either a main power unit, or PoE. Its power consumption is under 6W.

Power Plug

The power plug is fed with 9VDC, 800mA, linear.

Power Over Ethernet

The Speed Touch 2022 supports PoE as defined by 802.3af Standard It is class 2, and supports class negociation (in order to plug as many devices as possible on a PoE hub). It can be powered with PoE up to 100 meters with category 5,5e or 6 cables.

Connected a headset

If you will use a headset, plug the RJ9 headset connector into the headset port on the left side of your IP Phone.

Physical Features

User panel



Definitions of LED

LED Indicator	Condition	Color	Status
	Default		OFF
LED Indicator Speaker Voicemail Mute Feature keys System	During FW boot	Red	ON
	Loudspeaker is activated during a call		ON
	Default		OFF
Voicemail	During FW boot	Red	ON
	Voicemail received		Slow blinking
	Default		OFF
Mute	During FW boot	Red	ON
	Mute is active		ON
	Default		OFF
	During FW boot		ON
	Used for speed dial keys in standby mode		OFF
Feature keys	Line appearance: standby mode	Green	OFF
	Line appearance: a call is incoming		Fast blinking
	Line appearance: is active		ON
	Line appearance: hold or remote hold		Slow blinking
	Boot: during FW boot		Red ON
	Boot: during DHCP process (if any)		Red Slow blinking
	Boot: during SIP registration		Red Fast blinking
	Running mode: Ethernet connection is down		Red Slow blinking
	Running mode: IP connection is down (e.g. no IP address allocated)		Red Slow blinking
System	Running mode: SIP connection is down (e.g. SIP registration or registration refresh failure)	Red	Red Slow blinking
	Auto-configuration: during configuration file download		Red Fast blinking
	Auto-configuration: during firmware file download		Red Fast blinking
	System is programming FLASH	1	Red ON
	Ringing state]	Green Slow blinking
	Alert messages and missed calls		Green Slow blinking

II. Configuration through LCD

Assign an IP address to the phone

Setting the address

Using Fix IP address

- 1. Press menu key.
- 2. Choose Admin with softkeys.
- 3. The phone will prompt Input Password:
- Make sure you have selected the right entry mode with the A>a>1 softkey.
- 5. Enter the admin password using the Dialing pad (default value is 784515) and choose **OK** with softkeys.
- 6. Select Networking with Navigator keys and choose Select with softkeys
- The actual mode must now be highlighted. It can be DHCP, Fixed-IP or PPPoE. Choose Edit with softkeys
- 8. Choose Fixed-IP using the Navigator keys and choose Save with softkeys
- 9. Scroll down to the IP address using the <u>Navigator keys</u> and Choose Edit with <u>softkeys</u>
- 10. Erase the previous IP address with DeIChr softkey
- 11. Enter the new one with the Dialing pad and then press the Save softkey
- 12. Press the **Back** softkey to return to previous menu.
- 13. Press the **Back** softkey once again to return phone idle mode.
- 14. Press menu key.
- 15. Choose Option with softkeys.
- 16. Use the Navigator keys to scroll down the menu to Reboot
- 17. Press Select softkey
- 18. The ST2022 displays Reboot?

- 19. Press OK softkey
- 20. Wait for ST2022 to reboot
- 21. The new IP address is set
- 22. Check that the IP address is set properly

Using DHCP

- 1. Press menu key.
- 2. Choose Admin with softkeys.
- 3. The phone will prompt Input Password:

Make sure you have selected the right entry mode with the A>a>1 softkey.

4. Enter the admin password using the Dialing pad (default value is 784515) and choose **OK** with softkeys.

Select Networking with Navigator keys and choose Select with softkeys

- 5. The actual mode must now be highlighted. It can be DHCP, Fixed-IP or PPPoE. Choose Edit with softkeys
- 6. Choose DHCP using the Navigator keys and choose Save with softkeys
- 7. Press the **Back** softkey to return to previous menu.
- 8. Press the **Back** softkey once again to return phone idle mode.
- 9. Press menu key.
- 10. Choose Option with softkeys.
- 11. Use the Navigator keys to scroll down the menu to Reboot
- 12. Press Select softkey
- 13. The ST2022 displays Reboot?
- 14. Press OK softkey
- 15. Wait for ST2022 to reboot
- 16. The new IP address is set
- 17. Check that the IP address is set properly

Check that the IP address is set properly

- 1. Press menu key
- 2. Choose User with softkeys
- 3. Use the Navigator keys to scroll down the menu to Information
- 4. Press Select softkey
- 5. The IP address is displayed

Once you know the IP address of the ST2022, you can start to configure the phone using its friendly web interface.

Reset to default

In order to reset the phone to its default configuration values (including passwords), perform the following actions:

- 1. Unplug the phone from its power source
- 2. Maintain the Mute and Headset keys pressed
- 3. Without releasing the Mute and Headset keys, plug back the phone to its power source
- 4. ST2022 will prompt "Reset to default !!!"
- 5. The ST2022 is now reset to its default configuration values.

III. Configure phone using web interface

Find the phone IP address

- 1. Press menu key
- 2. Choose User with softkeys
- 3. Use the Navigator keys to scroll down the menu to Information
- 4. Press Select softkey
- 5. The IP address is displayed

Access to Admin Homepage (web interface)

- 1. Open a web browser (Firefox, Internet Explorer, Safari...)
- 2. Enter the ST2022 IP address in the address bar with **/admin.html** appended at the end of it. Ex: **10.0.0.1/admin.html**

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		_
	User Login	
	You have to logon with your username and password.	
	Username:	
	Password:	
	Log On	

3. Enter the administrator login "administrator"

- 4. Enter the administrator password (default value is **784518**)
- 5. You will access the Homepage of the ST2022

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	HOME	SETUP ADVANC	ED UTILITY	STATUS I	LOGOUT
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	Setup	Advanced	Utility	Statu	zs
	The Setur costion	The Advanced costion late	ven estimute The Hilities	eastion allows you The S	totus costian diaplays status
	allows you to show network interface.	advanced features includi advanced features includi voice settings, and phone	ng networking to manage u list. run diagnos	section allows you The S iser accounts and log an e tests. conne	actions section inspirays status, ed statistical information for all actions and interfaces.
	System Inf	ormation	Internet Inf	ormation	
	H/W Version	• V0	MAC Address:	00:0E:50:4E:91:	AF
	Boot Version	V1.00	Connection:	DHCP	
	DSP Version	V0.00	IP Address:	10.0.0.1	
	APP Version	V1.36	Common Confi	ig:	
	MAC-Specific	Config: st2030s_000E504E	91AF.txt		

Setup the SIP configuration

- 1. Once connected to the ST2022 Admin Homepage, go to the Utility page (Click on **SETUP** on the top menu of the Homepage.
- 2. You will access the Setup Page



- 3. Click on **Basic Setup** in the left menu
- 4. You will access the Setup Basic Setup page

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	HOME	SETUP	ADVANCED	UTILITY	STATUS	LOGOUT	
Network Interface	Basic Setup						
VoIP Service Basic Setup	Choose the Pro	ofile you want i ile 1 ile 2	to set or edit its fui Edit Edit	nction:			
	Prof Prof	ile 3 ile 4	Edit				
					Apply	Cancel	

- 5. Click on the Edit button of the profile you want to edit.
- 6. You will access the Profile Setup page.

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	HOME SETUP	ADVANCED UTILITY STATUS	LOGOUT
Network Interface	Basic Setup		
Network Setup	Profile Name : Profile 1		
VoIP Service Basic Setup	Primary SIP Server :		
	Service Domain:		
	Registrar Server Address:	port: 5060 (1025~49	151)
	Proxy Server Address:	port: 5060 (1025~49	151)
	SIP Local Port:	5060 (1025~49151)	
	Registration Timer:	3600 (60~200,000)	
		Default	
	Backup SIP Server :		
	Service Domain:		454)
	Proxy Server Address:	port: 5060 (1025~49	151)
	SIP Local Port:	5060 (1025~49151)	(31)
	Registration Timer:	3600 (60~200,000)	
	User Accounts :		
	Phone Number Phone N	ame Authentication ID Password	
		<u>A</u>	pply Cancel Back

- 7. Fill in the SIP Servers properties and the User Accounts
- 8. Click on **Apply**



9. Your changes have been taken into account

Upgrade firmware

- 1. Once connected to the ST2022 Admin Homepage, go to the Setup page (Click on **UTILITY** on the top menu of the Homepage.
- 2. You will access the Utilities Page



- 3. Click on **Firmware Update**
- 4. You will access the Utilities Firmware Update page

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http://10.0.0.1/mai	in.html				✓ Ø 60 G.	
HOME	SETUP	ADVANCED	UTILITY	STATUS	LOGOUT	
Firmware Update (U	Ising HTTP)	Firmware Update Using	HTTP T	j	Apply	
	Iools Help HOME HOME Firmware Update (U	Iools Help	Iools Help http://10.0.0.1/main.html ADVANCED Firmware Update (Using HTTP) Firmware Update Using Firmware Update (Using HTTP) Firmware Update Using	Iools Help Image: http://10.0.0.1/main.html HOME SETUP ADVANCED UTILITY Firmware Update (Using HTTP) Firmware Update Using HTTP▼ Browse Image: http://doi.org/10.00110000000000000000000000000000000	Iools Help Image: http://10.0.0.1/main.html Image: http://10.0.0.1/main.html HOME SETUP ADVANCED UTILITY STATUS Firmware Update (Using HTTP) Firmware Update Using HTTP * Browse Browse	Iools Help http://10.0.0.1/main.html Image: Model of the setup

- 5. Browse to find the firmware file you want to upload
- 6. Click on **Apply**



7. The ST2022 will upload the firmware

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	,						
	HOME	SETUP	ADVANCED		STATUS	LOGOUT	
System Command Save & Restart Backup Settings Restore Settings Firmware Update Restore Default Telephone Configure Security User Management Phone Lock Diagnostic Tools Ping Test	HOME	SETUP ing HTTP)	ADVANCED	UTILITY	STATUS		

8. When the firmware file will be uploaded, the ST2022 will ask you to confirm the restart.

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	HOME	SETUP	ADVANCED	UTILITY	STATUS	LOGOUT	
System Command	Save & Restart						
Backup Settings					11 - 1		
Firmware Update	It might	De necessary to	restart the phone to n	iake changes actua	illy taking effect.		
Telephone Configure			Restart				
Security							
Oser Management Phone Lock							
Diagnostic Tools							
Ping Test							

- 9. Click on **Telephone Configure**
- 10. You will access the Utilities Telephone Configure page
- 11. Browse to find the TelConf file associated to the firmware
- 12. Click on Apply
- 13. When the TelConf file will be uploaded, the ST2022 will ask you to confirm the restart.
- 14. Click on **Restart**.
- 15. The ST2022 will reboot and the firmware will be updated