SAGEM F@st™ 908 / 948 Ethernet/USB Combo ADSL Modem



Reference Manual - USB Interface

Reference: 288 055 881 ed. 1

July 2004 Issue



SAGEM sA closely follows all technical changes and continually strives to improve its products for the benefit of its customers. It therefore reserves the right to change its documentation accordingly without notice.

All the trademarks mentioned in this guide are registered by their respective owners:

- SAGEM F@st[™] is a registered trademark of SAGEM SA.
- WindowsTM and Internet ExplorerTM are registered trademarks of Microsoft Corporation.
- Apple® and Mac®OS are registered trademarks of Apple Computer Incorporation.

Warning



Warning icon used in this guide.

Information icon used in this guide.

Contents

		Pages
1	Connecting the SAGEM F@st [™] 908 / 948	1-1
2	Installation in Microsoft Windows®	2-1
	2.1 Installing the SAGEM F@st [™] 908 / 948 2.1.1 Encapsulation options in USB mode (depending on versions)	2-3 2-5
	2.2.1 PPP connection mode 2.2.2 DHCP connection mode	2-6 2-6 2-7
	 2.3 SAGEM F@st[™] 908/948 modem status 2.3.1 Checking installation of the SAGEM F@st[™] 908/948 2.3.2 "Diagnostic" tools 	2-9 2-9 2-10
	2.4 Uninstalling the SAGEM F@st [™] 908/948	2-12
3	Installation in Mac OS 8.6 or Mac OS 9.x	3-1
	3.1 Installing the SAGEM F@st [™] 908/948 3.1.1 Encapsulation options in USB mode (depending on versions)	3-3 3-6
	3.2 Connecting to the Internet 3.2.1 PPP connection mode 3.2.2 DHCP connection mode	3-7 3-7 3-9
	 3.3 SAGEM F@st[™] 908/948 modem status 3.3.1 Checking installation of the SAGEM F@st[™] 908/948 3.3.2 "Diagnostics" tools 	3-10 3-10 3-12
	3.4 Uninstalling the SAGEM F@st [™] 908/948	3-14
4	Installation in Mac OS X	4-1
	 4.1 Installing the SAGEM F@st[™] 908/948 4.1.1 Encapsulation options in USB mode (depending on versions) 	4-3 4-5
	4.2 Connecting to the Internet 4.2.1 PPP connection mode 4.2.2 DHCP connection mode	4-6 4-6 4-9
	 4.3 SAGEM F@st[™] 908/948 modem status 4.3.1 Checking installation of the SAGEM F@st[™] 908/948 4.3.2 "Diagnostics" tools 	4-11 4-11 4-12
	4.4 Uninstalling the SAGEM F@st [™] 908/948	4-12
5	Problem solving in USB mode	5-1

5.1 Inter	5.1 Interpreting the LEDs visible on the modem cover	
5.2 Prob	lem solving in USB mode	5-2
5.2.1	"ADSL" and "PWR" LEDs off	5-2
5.2.2	"ADSL" LED off and "PWR" LED on	5-2
5.2.3	"ADSL" LED on steady and "PWR" on	5-3

1 Connecting the SAGEM F@st[™] 908 / 948

This section :	Describes how to connect the ADSL splitters.	1
	Describes how to power up the modem.	2
	Describes how to connect to the ADSL-compatible telephone line.	3

1 - Connecting the SAGEM F@st[™] 908 / 948

To install your modem without any difficulty, please follow the steps below in number order.

1. Connect the ADSL splitters to your telephone sockets

The ADSL splitters (or filters) let you make phone calls and use your ADSL line at the same time.



All the sockets used by a telephone device must be fitted with an ADSL splitter. This device may be an analog telephone, a DECT phone, an answering machine, a fax machine, a set top box decoder return channel, etc.

2. Power up your modem



For this, use the power supply unit supplied with your modem¹ When the modem is powered up, the PWR LED lights.

¹ The use of any other power supply unit will invalidate the manufacturer's warranty.





At this stage, you have made all the connections you need to use your ADSL modem. All you now have to do is install the applications delivered with the modem and set up your internet access.

This chapter :	٨	Describes how to install the SAGEM F@st TM 908 / 948.	section 2.1
	٨	Describes how to choose encapsulation in USB mode (depending on versions).	section 2.1.1
	۶	Describes how to connect to the Internet.	section 2.2
	۶	Describes the status of the SAGEM F@st TM 908 / 948 modem.	section 2.3
	\triangleright	Describes how to uninstall the SAGEM F@st TM 908 / 948.	section 2.4

2.1 Installing the SAGEM F@st[™] 908 / 948



It is vitally important to run the installation CD-ROM before connecting the USB cable to your computer.

If a SAGEM F@st[™] 800 / 840 modem is already installed on your computer, you have to uninstall it before installing your SAGEM F@st[™] 908 / 948 modem.



The procedures for **installing**, **checking** installation and **uninstalling** described below have been carried out arbitrarily using **Windows® XP**. There might be slight differences when installing in other Windows® operating systems (98, ME and 2000).

1 Insert the modem CD-ROM in the appropriate drive on your computer; the screen opposite appears.

You can change the installation language by clicking on this icon

(availability depending on model).

Click on the USB connector to set up your computer's USB interface.



- **Note:** If this screen does not appear, from the Start menu, select Run and then enter: "<CD-ROM drive letter>:\autorun.exe" (for example e:\autorun.exe) then click **OK**.
- 2 The screen opposite appears. Select the country in which located, from the list (availability depending on model).

Choose your Internet Access Provider from the proposed list . If it is not shown, select «Other».



If you chose «Other» Provider on the previous screen, the data entry screen opposite appears.

Select the mode applicable to your Internet Access Provider (IAP), then set the values in accordance with the IAP's instructions.

For more information regarding this choice, refer to section 2.1.1.

Click **OK** to continue installation.

Click on this icon

 The screen opposite appears.
 Follow the instructions displayed on this window.

(See figure below).

Protocol: PPPoE	ок
VPI: 8	Annuler
VCI: 35	
Encapsulation: LLCsnap	•

DSLMON	Warning	X
٩	Please connect your modem to your computer with the USB cable. If your modem is already connected, unplug then replug the USB cable.	
	This screen will close automatically after installation of your modem.	
	()	



For this, use the USB cable supplied with your modem.

4 The screen opposite appears. Installation is now finished. Click **OK**.



Note: Depending on your PC's configuration and the operating system installed, Windows® may also prompt you to restart your computer. This will be necessary for your modem to operate correctly.



When installation of the USB interface is complete, the "Diagnostics - USB" icon below appears bottom right in your desktop's task bar (icon shown framed) each time you start up Windows._____



5 You can now check installation of your modem by following the instructions in section 2.3.1.

2.1.1 Encapsulation options in USB mode (depending on versions)

The encapsulation parameters are automatically set up, when the Internet Access Provider is chosen from the list offered by the installation software.

Nevertheless, it is possible to set up the parameters of an Internet Access Provider that would not have been listed.

In this particular case, you should select **«Other**» from the Internet Access Provider list. A window will show up and let you choose the encapsulation modes.

Depending on versions, the SAGEM F@st[™] 908/948 modem offers various encapsulation modes when installing in USB mode:

- PPPoA,
- ➢ PPPoE,
- RFC 1483 bridge (DHCP),
- RFC 1483 router (DHCP).

Please refer to the documentation or the subscription email from your Internet Access Provider (IAP) to ascertain which encapsulation mode is appropriate to your ADSL line.

2.2 Connecting to the Internet

When the modem is correctly connected and the "diagnostics - USB" icon installed, you need to set up your Internet connection.

The SAGEM F@st[™] 908/948 modem is compatible with the following two Internet connection modes:

- PPP (see section 2.2.1),
- DHCP (see section 2.2.2).



Check with your Internet Access Provider (IAP) to find out which connection mode is available on your ADSL-compatible telephone line.

2.2.1 PPP connection mode

1 The installation software will have created the "Internet ADSL" icon in your Windows® XP desktop. Double click this icon.



- 2 The connection screen appears.
- 3 Enter your "User name" and your "Password". These parameters will have been supplied to you by your Internet Access Provider (IAP).
- 4 Check the "Save the user name and password for the following users" box and select "Anyone who uses this computer" if you want.
- 5 Click "Dial" to set up the connection.



6 Open your browser and access the Internet.

2 - Installation in Microsoft Windows® Disconnecting from the Internet

Double click the Internet ADSL icon on your Windows® desktop,

or right click on the Internet ADSL icon in your Windows® desktop,

or right click on the connection icon in the Windows® task bar.



You will be disconnected.

2.2.2 DHCP connection mode

To connect your computer (PC or Mac) operating in DHCP client mode via its USB interface to the SAGEM F@stTM 908/948, you must correctly set up the computer. This configuration procedure can be carried out regardless of the computer's operating system.

It entails assigning a public IP address to your computer (PC or Mac) by DHCP request.

In Windows® XP, for example, proceed as follows:

- 1 ➤ Select Start / Control Panel. In the corresponding screen double click on Network Connections, the screen opposite appears.
 - Select the local connection that you want to use with the SAGEM F@stTM 908/948 then right click and select **Properties**.

S Network Connections				E B 🛛
File Edit Wew Favorites Tools	Advagced Help			A *
🔇 Back + 🕥 - 🏂 🔎 S	iearch 😥 Folders 🕼 🎯	× 9 🔤		
Address 🔕 Network Connections				💌 🛃 😡
Nome	Туре	Status	Device Name	Phone # or Host Addre
LAN or High-Speed Internet				
Local Area Connection	LAN or High-Speed Inter LAN or High-Speed Inter	Enabled Enabled	Realtek RTL8139 Family USB ADSL LAN Adapter	
New Connection Witard	Wizard Wizard			
<				

- **2** The screen opposite appears.
 - Select the General tab followed by the TCP/IP protocol and click the Properties button.

- **3** The screen opposite appears.
 - Select the General tab and then the Obtain an IP address automatically command and the Obtain DNS server address automatically command.
 - Click OK to confirm your choice.

Esseration semiserion 2 P	ropercies 👔 🔼		
General Authentication Advance	ed		
Connect using:			
颵 USB ADSL LAN Adapter			
	Configure		
This connection uses the following	g items:		
Elient for Microsoft Networks Elient for Microsoft Networks Elie and Printer Sharing for Microsoft Networks Thermat Protocol (TCP/IP)			
I <u>n</u> stall	stall Properties		
Description Transmission Control Protocol/Internet Protocol. The default wide area network protocol that provides communication			
Show icon in notification area (when connected		
Internet Protocol (TCP/IP) Prope	erties ?X		
Internet Protocol (TCP/IP) Prope General Alternate Configuration	erties		
Internet Protocol (TCP/IP) Prope General Alternate Configuration You can get IP settings assigned auto this capability. Utherwise, you need to the appropriate IP settings.	erties		
Internet Protocol (TCP/IP) Prope General Alternate Configuration You can get IP settings assigned auto this capability. Otherwise, you need to the appropriate IP settings. © Datain an IP address automatica	erties		
Internet Protocol (TCP/IP) Prope General Alternate Configuration You can get IP settings assigned auto this capability. Otherwise, you need to the appropriate IP settings. © Datain an IP address automatica © Use the following IP address:	erties		
Internet Protocol (TCP/IP) Propo General Alternate Configuration You can get IP settings assigned auto this capability. Otherwise, you need to the appropriate IP settings. © IDtain an IP address automatica O Uge the following IP address: IP address:	erties		
Internet Protocol (TCP/IP) Prope General Alternate Configuration You can get IP settings assigned auto this capability. Otherwise, you need to the appropriate IP settings. Data in IP address automatica Use the following IP address: JP address: Sybnet mask:	erties		
Internet Protocol (TCP/IP) Prope General Alternate Configuration You can get IP settings assigned auto this capability. Utherwise, you need to the appropriate IP settings. © [Datain an IP address automatica O Uge the following IP address: IP address: Sybnet mask: Default gateway:	erties		
Internet Protocol (TCP/IP) Prope General Alternate Configuration You can get IP settings assigned auto this capability. Otherwise, you need to the appropriate IP settings. • Ubtain an IP address: automatical • Ubtain and the address automatical • Default gateway: • Obtain DNS server address automatical	erties		
Internet Protocol (TCP/IP) Prope General Alternate Configuration You can get IP settings assigned auto this capability. Otherwise, you need to the appropriate IP settings. © IDtain an IP address automatica © Use the following IP address: IP address: Subnet mask: Default gateway: © Obtain DNS server address auto © Use the following DNS server address auto	erties		
Internet Protocol (TCP/IP) Prope General Alternate Configuration You can get IP settings assigned auto this capability. Otherwise, you need to the appropriate IP settings. © IDtain an IP address automatical O Use the following IP address: IP address: Sybnet mask: Default gateway: © Obtain DNS server address auto O Use the following DNS server address auto Preferred DNS server:	erties		
Internet Protocol (TCP/IP) Prope General Alternate Configuration You can get IP settings assigned auto this capability. Otherwise, you need to the appropriate IP settings. Detain an IP address automatica Uge the following IP address: IP address: Subnet mask: Default gateway: Obtain DNS server address auto O Use the following DNS server ad Preferred DNS server: Alternate DNS server:	erties erties matically if your network supports ask your network administrator for matically iddresses:		
Internet Protocol (TCP/IP) Propo General Alternate Configuration You can get IP settings assigned auto this capability. Utherwise, you need to the appropriate IP settings.	erties		

2.3 SAGEM F@st[™] 908/948 modem status

2.3.1 Checking installation of the SAGEM F@st[™] 908/948

- 1 In the Start menu, select Control Panel then double click System and the System Properties window appears.
- 2 Select the Hardware tab and then click in the **Device Manager** field on the corresponding button.
- 3 The Device Manager screen appears. Press PLUS (+) alongside the "Network Adapters" entry to expand the list of network cards installed.
- 4 Check that the USB ADSL WAN Adapter or USB LAN Adapter network card is present.



2.3.2 "Diagnostic" tools



With this application, you can monitor the status of the ADSL line.

1 When you have installed the modem and connected it to the PC by its USB lead, the diagnostics icon opposite appears in the bottom right corner of your desktop's task bar (boxed icon). Double click the **Diagnostics** icon.



Note: When the Diagnostics icon does not appear in the task bar, select using Start / Programs / SAGEM F@st[™] 908-948/Diagnostics - USB.



2 The **SAGEM F@st 908-948** diagnostics screen opposite appears.

SAGEM F@st 908-948		
DSL Sta	tus: OPERATIONAL	
320 Kbits/s 22 Kbits/s	Débit de ligne Débit des données	1216 Kbits/s 680 Kbits/s
Transmission Réception		
Close		

The table below gives the meaning of the various fields.

	Field		Description
Modem status			
۲	Green Struck through Red	Not detected	The computer has not detected presence of the modem on one of its dedicated USB ports
	Red	Not synchronized	ADSL link not synchronized. Connection to the Internet cannot be set up
	Yellow	Synchronizing in progress	The computer has detected presence of the modem on one of its dedicated USB ports and ADSL synchronization is in progress
	Green	Operational	ADSL link synchronized. A connection to the Internet can be set up
Line bit rate		Upstream or outgoing rate (data sent to the Internet) negotiated by the ADSL link (in kbps/s)	
Transmit			
Data rate		Instantaneous user transmit rate (in kbps/s)	
Line rate		Downstream or incoming rate (data from the Internet) negotiated by the ADSL link (in kbps/s)	
	Receive		
Data rate		Instantaneous user recep	otion rate (in kbps/s)

Version information

Right click on the diagnostics icon or on the diagnostics screen's title bar then select "About ..." and the information screen opposite appears.

S	AGEM F@st 90	8-948 vA.0.3	
	GUI Version Hardware Driver Firmware MAC Address	: 2.5.4.26_1 : 6.0.0.8 : 2.1.9.15 : 41E2BE2C : 00:17:00:00:75:8E	
	Copyright	: (C) 2002	OK I

2 - Installation in Microsoft Windows® Uninstalling the SAGEM F@st[™] 908/948

1 Left click on the **Start** menu in the task bar.

24

Select All programs (Programs in Windows® 98FE, 98SE, ME and 2000), SAGEM F@st 908-948, then Uninstall F@st 908-948.



2 The screen opposite appears. Click **OK**.

1	Confirm Uninstall
	WARNING: This will disconnect you from Internet and remove all the modem files and drivers. Do you want to completely remove the selected application and all of its components?
	Cancel

 The screen opposite appears. Disconnect your modem if appropriate then click OK. Uninstallation is now finished.



This chapter :	۶	Describes how to install the SAGEM F@st TM 908 / 948.	section 3.1
	۶	Describes the encapsulation options in USB mode (depending on versions).	section 3.1.1
	۶	Describes how to connect to the Internet.	section 3.2
	٨	Describes the status of the SAGEM F@st TM 908 / 948 modem.	section 3.3
	۶	Describes how to uninstall the SAGEM F@st TM 908 / 948.	section 3.4

Reminder: The SAGEM F@stTM 908/948 can be installed in the following operating systems:

- > MacOS 8.6,
- > MacOS 9.x
- MacOS X (10.1 and 10.2).



This chapter 4 deals only with installation in the MacOS 8.6 and MacOS 9.x.

The procedures for installing, connecting and disconnecting, checking installation and uninstalling described below were carried out arbitrarily in MacOS 9.2.

3.1 Installing the SAGEM F@st[™] 908/948



It is vitally important to run the installation CD-ROM before connecting the USB cable to your computer.

- 1 Insert the CD-ROM in your computer's appropriate drive; an icon appears in the desktop. Double click this icon.
- 2 Double click the **OS 8.6 9.x** icon to run the installation program.
- 3 The installation screen opposite appears.





0K

4 Depending on the versions of your modem, the screen opposite appears.

Select the mode applicable to your Internet Access Provider (IAP).

For more information regarding this choice, refer to section 3.1.1.



5 The screen opposite appears. Connect the USB lead to the SAGEM F@stTM 908/948 modem via the rear panel connector marked USB.



(See sketch below).



For this, use the USB lead supplied with your modem.

6 The screen prompting you to restart your computer appears.



The installation is now finished.

- 7 A triangular icon created in the settings bar.
- 8 At the end of the installation process, the diagnostics tool icon is created in the desktop.



9 You can now check installation of your modem by following the instructions in section 3.3.1.

3.1.1 Encapsulation options in USB mode (depending on versions)

Depending on versions, the SAGEM F@st™ 908/948 modem offers a number of different encapsulation modes on installation in USB mode:

- PPPoA,
- PPPoE,
- ▶ RFC 1483 bridge / DHCP,
- > RFC 1483 router / DHCP.

Please refer to the documentation or even the subscription email from your Internet Access Provider (IAP) to ascertain which encapsulation mode is appropriate to your ADSL line.

3.2 Connecting to the Internet

When the modem is correctly connected and the "diagnostics - USB" icon installed, you still have to set up your Internet connection.

The SAGEM F@st[™] 908/948 modem is compatible with the following two Internet connection modes:

- PPP (see section 3.2.1),
- DHCP (see section 3.2.2).



Check with your Internet Access Provider (IAP) to find out which connection mode is available on your ADSL-compatible telephone line.

3.2.1 PPP connection mode

1 Click the **Remote access** icon in the settings bar at the bottom of the desktop to display the list of commands inherent in this icon.

Note: Before connection, the remote access state is *Idle*.

Select Open Remote Access.



- 2 The Remote Access screen appears.
- Enter your "User name" and "Password". These parameters will be supplied by your Internet Access Provider (IAP).
- 4 Check the "Save password" box for subsequent users if you want.
 - Note: The Number field needs to contain "123456".

🗖 📰 Remo	ite Access (ADSL USB Remote Config) 📃 🗄
⊽ Setup	
	🖲 Registered User 🛛 Guest
Name :	21ppp169
Password:	•••••
	Save password 🔲 Use Dial Assist
Number :	123456
Status -	
ldle.	
0	Options Connect

- 5 Click Connect to set up the connection.
- 6 Open your browser and access the Internet.
 - Note: On connecting for the first time, you must follow the procedure described previously.

However, for subsequent connections, the simple fact of opening a browser connects you directly to the wide area network.

Disconnecting from the Internet

1 Click the **Remote access** icon in the settings bar to display the list of commands inherent in this icon.

Note: After connection, the state of the remote access is *Connected*.

Select Open Remote Access.

2 The Remote Access screen appears.

Click the **Disconnect** button to disconnect the modem.



🗌 🔰 Remote Access (ADSL USB Remote Config) 📃 🗏
∠ Satun
Registered liser O Guest
Name: [fti/ce3ch44@fti
Password:
Save password 🔲 Use Dial Assist
Number : 123456
Status
Connection established.
Connected to: 193.253.160.3
Time connected: 0:00:17
Time remaining: Unlimited Send Receive
Options Disconnect

Note: To confirm that the procedure has been successful, select **Open Remote Access** an the Remote Access screen appears. This screen should show the "Idle" state and

contain the **Connect** button

3.2.2 DHCP connection mode

 In the menu bar, select Apple / Control Panel / TCP/IP; the following screen appears.

	TCF/IF (ADSE 03D BITUg	e conng)	
Connect via:	ADSL USB Modern 2		
Configure :	Using DHCP Server		
DHCP Client ID :			
IP Address:	169.254.66.10		
Subnet mask :	255.255.0.0		
Router address:	< not available >		
Name server addr.:	239.255.255.251	Search domains :	
0			

Note: The Connect via: and Configure: fields should respectively contain ADSL USB Modem xxx and Using DHCP Server.

If not, modify the Connect via: field, proceed as follows:

- > In the menu bar, select **Apple / Control panel/ Modem**; a window appears and the menu bar is modified.
- > In the new menu bar, select File / Configurations and a window appears.
- From the pop-up list, select "Default" then click "Make Active".
- 2 Open your browser and surf the Internet.

3 - Installation in Mac OS 8.6 or Mac OS 9.x 3.3 SAGEM F@st[™] 908/948 modem status

3.3.1 Checking installation of the SAGEM F@st[™] 908/948

1 Click the **Remote access** icon in the settings bar at the bottom of the desktop to display a list of the commands inherent in this icon.

Click Open Remote Access.



2 Click on the **Remote access** menu in the menu bar at the top of the desktop to display the list of commands inherent in this menu.

Click the Modem command.

The "Connect via" field should contain: **ADSL USB Modem**.

In the **Setup** area, the "Modem" field should contain the name of your modem: **ADSL USB Modem**

🗌 🔜 Moden	n (ADSL USB Modem Config) 📃	E
Connect via:	ADSL USB Modem	
Catur		
Setup		
Modern :	ADSL USB Modem	
Sound :	Off	
Dialing	Tana	
Dianing.	Tone	
	🗹 Ignore dial tone	
		·
0		

If not, to modify the greyed out (not modifiable) fields, proceed as follows:

- In the menu bar, select **Remote Access** / **Modem**; a window appears and the menu bar is modified.
- In the new menu bar, select File / Configurations, a window appears.

- In the pop-up list, select "Default" then click the "make Active" button.

You can now select **ADSL USB Modem** in the drop-down lists of the **Connect via** and **Modem** fields.

3 Click on the **Remote access** menu in the menu bar at the top of the desktop to display the list of commands inherent in this menu.

Click the TCP/IP command.

The "Connect via" field should contain: **PPP**.

In the Setup area, the "Configure" field should contain: Using PPP server

	TCP/IP (ADSL USB PPPoX C	Config) 📃 🗄
Connect via:	PPP	
Configure :	Using PPP Server	Select Hosts File
		Implicit Search Path : Starting domain name :
IP Address:	< will be supplied by server >	
Subnet mask:	< will be supplied by server >	Ending domain name :
Router address:	< will be supplied by server >	
		Additional Search domains :
Name server addr.:		
Info		Options

If not, to modify the greyed out (not modifiable) fields, proceed as follows:

- In the menu bar, select **Remote Access** / **TCP/IP**; a window appears and the menu bar is modified.
- In the new menu bar, select File / Configurations, a window appears.
- In the pop-up list, select "Default" then click the "Make Active" button.

You can now select **PPP** from the drop-down list in the **Connect via** field and **Using PPP server** from the drop-down list in the **Configure** field.

3 - Installation in Mac OS 8.6 or Mac OS 9.x 3.3.2 "Diagnostics" tools



With this application, the user can monitor the state of the ADSL line and configure the SAGEM F@stTM 908/948 modem. This application is included in all the operating systems listed in section 1.4 - prerequisites.

1 When you have installed the modem and connected it to the **Macintosh** by its USB lead, the diagnostic icon appears on the desktop.



Double click the diagnostics tool icon or Click the triangular icon in the setup bar.

2 The diagnostics screen appears.

SAGEM Monitor
Operation Statistics Configuration
ADSL Status
Line type G.DMT Reset Modem
ADSL Performance
Transmit
Line Rate 320 kbps Data Rate 0 kbps
Receive
Line Rate 1216 kbps Data Rate 0 kbps
SAGEM Save Changes

The content of the "Operation" tab in the diagnostics screen is explained below.

"Modem status" area

Fi	eld	Des	cription
Modem sta	itus		
SAGEM monitor	Setup bar		
		Modem not detected on USB port	This black icon indicates that the computer has not detected presence of the modem on one of its dedicated USB ports
		The modem is waiting for a response from the driver	This red icon indicates that the ADSL link is not synchronized. Connection to the Internet cannot be set up
		ADSL synchronization in progress	This yellow icon indicates that the computer has detected presence of the modem on one of its dedicated USB ports and that ADSL synchronization is in progress
		The modem is operational	This green icon indicates that the ADSL link is synchronized and an Internet connection can be set up
Line type		G.DMT, G.LITE or ANSI T1.413	
Reset	Modem	Click this button to reset the mode	em.

"ADSL performance" area

Field	Description
Line rate	Upstream or outgoing rate (data sent to the Internet) negotiated by the ADSL link (in kbits/s)
Transmit	
Data rate	Instantaneous user transmit rate (in kbits/s)
Line rate	Upstream or incoming rate (data from the Internet) negotiated by the ADSL link (in kbits/s)
Receive	
Data rate	Instantaneous user receive rate (in kbits/s)

Note: The "Configuration" tab gives you the version of the product, the driver, the monitor, the microcode and the hardware.

3 - Installation in Mac OS 8.6 or Mac OS 9.x 3.4 Uninstalling the SAGEM F@st[™] 908/948

- 1 Insert the CD-ROM in your computer's appropriate drive; an icon appears in the desktop. Double click this icon to display the contents of the CD-ROM.
- 2 Double click the **OS 8.6 9.x** icon to run the Install/Uninstall program.
- 3 The screen opposite appears. 05 8.6-9.x DIE Uninstall ŧ In the top left corner. select 54GEM F@st 908/948 in the drop-Uninstall down list then in the bottom right Uninstall corner click the hutton Install Location Ouit Items will be installed on the disk "Mac OS 9.x" Install 4 The screen opposite appears. No other applications can be running during this operation. Click Continue to automatically guit all other running Continue applications. Click Cancel to leave your Click disks untouched. Continue Cancel 5 The message opposite prompts you to You need to restart the computer if you want to restart your computer before reinstalling reinstall the drivers. the modem drivers. 0K 0K Click 6 Uninstallation has now been completed The uninstall was successful. successfully. ۱II, 0K 0K

You can now restart your computer.

Click

4 Installation in Mac OS X

This chapter :	۶	Describes how to install the SAGEM F@st TM 908 / 948.	section 4.1
	۶	Describes the encapsulation options in USB mode (depending on versions).	section 4.1.1
	۶	Describes how to connect to the Internet.	section 4.2
	۶	Describes the status of the SAGEM F@st TM 908 / 948 modem.	section 4.3
	۶	Describes how to uninstall the SAGEM F@st TM 908 / 948.	section 4.4

4 - Installation in Mac OS X

Reminder: The SAGEM F@stTM 908/948 can be installed in the following operating systems:

- MacOS 8.6,
- MacOS 9.x,
- MacOS X (10.1 and 10.2).



This chapter 5 deals only with installation in the $MacOS\ X\ (10.1\ {\rm or}\ 10.2\ {\rm operating}\ system).$

The procedures for installing, connecting and disconnecting, checking installation and uninstalling described below were carried out arbitrarily in **MacOS 10.A**. Any slight differences with **MacOS 10.2** will be indicated as comments.

4.1 Installing the SAGEM F@st[™] 908/948



It is vitally important to run the installation CD-ROM before connecting the USB cable to your computer.

1 Insert the CD-ROM in your computer's appropriate drive; an icon appears in the desktop.

Double click this icon.

OK

click

- 2 Select USB then click in the OS X directory to run the install program.
- 3 The authentication screen opposite appears. Enter the user name and password for the **Administrator** account then

Yc	ou need a	an administrator name and password
● °	phrase t	to make changes in OS X.
	Name:	smith@isp
Password or	phrase:	

Note: You must have "Administrator" rights to install the router.

4 The screen opposite appears.



		OS X	000
		+	Install
			SAGEM F@st 908/948
			- Install Location
\supset	Quit	on the disk "Mac OS X 10.1.2"	tems will be installed
	Install	OS X 10.1.2	Install Location : Mac
	Quit	on the disk "Mac OS X 10.1.2"	Items will be installed

No other applications can be running during

Cancel

Continue

this installation. Click Continue to

automatically quit all other running applications. Click Cancel to leave your

disks untouched.

5 The installation software then displays a message indicating that installation of the router will entail restarting the computer.

	Continue	
installa	tion.	

6 Depending on the versions of your modem, the screen opposite appears. Select the mode applicable to your Internet Access Provider (IAP).

For more information concerning this choice, refer to section 3.1.1.

Then click OK

7 The screen opposite appears. Connect the USB lead to the SAGEM F@st[™] 908/948 mode via the rear panel port marked USB.

(See sketch below).



For this, use the USB lead supplied with your modem.





4 - Installation in Mac OS X

8 Installation is now finished. The screen prompting you to restart your computer appears.

Click	Restart	
• · · • · · ·		

9 At the end of the installation process, the diagnostics tool icon is created in the desktop.



You have installed software that requires you to

Restart

restart your computer.

10 You can now check installation of your modem following the instructions in section 3.3.1.

0

4.1.1 Encapsulation options in USB mode (depending on versions)

Depending on versions, the SAGEM F@st™ 908/948 modems offers a number of encapsulation modes on installing in USB mode:

- PPPoA,
- ➢ PPPoE,
- RFC 1483 bridge / DHCP,
- RFC 1483 router / DHCP.

Please refer to the documentation or the subscription email from your Internet Access Provider (IAP) to ascertain which encapsulation mode is appropriate to your ADSL line.

4.2 Connecting to the Internet

When the modem is correctly connected and the "diagnostics - USB" icon installed, you still have to set up your Internet connection.

The SAGEM F@st[™] 908/948 modem is compatible with the following two Internet connection modes:

- \blacktriangleright PPP (see section 4.2.1),
- DHCP (see section 2.2.2).



Check with your Internet Access Provider (IAP) to find out which connection mode is available on your ADSL-compatible telephone line.

4.2.1 PPP connection mode

This procedure is in two stages:

- Configuring access to the Internet (PPPoA or PPPoE) (steps 1 to 8).
- Connection proper (steps 9 to 11).

1	Ġ
	Click the 🔜 (apple) menu in the
	menu bar, select "System
	Preferences", then click the "network"
	icon.
	The screen opposite appears.

- 2 In the Show : field, select "Ethernet adapter" (in x) where x is a digit assigned by the operating system.
- **3** Select the **PPPoE** tab and the appropriate panel appears.

	Lo	catio	n: ADSI	USB PPPoE /	PPPo/ 🛟	
how:	Ethernet Adaptor	(enl)		;		
	TCF	/IP	PPPoE	AppleTalk	Proxies	1
			Conne	ct using PPPo	E	
	Service Provi	der:				(Optional)
	Account Na	me:	login@is	p		
	Passw	ord:]
	PPPoE Service Na	me:				(Optional)
			Save p Checkin access	assword ig this box allow his Internet acc	is all users of ount without	this computer to entering a password.
			PPPoE	Options)		
			Show	PPPoE status i	n menu ba	r.

- 4 Check the Connect using PPPoE box.
- 5 In the Name field, enter your "User name".
- 6 In the Password field, enter your "Password".
 - **Note:** These "Account name" and "Password" parameters will be supplied to you by your Internet Access Provider (IAP).

- 7 If you want:
 - Check the "Save password" box for subsequent users.
 - Check the "Show PPPoE status in menu bar" box (recommended).

⁸ Click Appliquer to register your input.



When you connect for the first time, you must follow the procedure described above. When connecting subsequently, you will simply set up the Internet connection by following steps **9** to **11** below.

9 In the desktop, double click the icon representing your Max OS X hard disk. Open the **Applications** folder then double click the connection icon:



10 The screen opposite appears.

Check that the **Configuration:** field contains "Ethernet adapter (in x)", in other words the board corresponding to your modem. If not, select it from the drop-down list.

Check that the information contained in the "Configuration", "Name" and "Password" fields is correct.

Click **Connect** to set up the connection.

Note: If the connection is not set up, it may be that you have entered the name or password incorrectly. In this

case, click the Modifier... button to correct the error.





Note: In Mac OS 10.1, the connection icon is as follows:

11 Open your browser and access the Internet.



If you checked the "Show status in the menu bar" box (see step 5) you can also proceed as follows:

000

•

Back

Click the connection icon _____ located in the menu bar.

Select Connect.



Annlications

A

De Explore

1

23 items, 7,14 GB available

P

at Car

Disconnecting from the Internet

1 In the desktop, double click the icon representing your Mac OS X hard disk. Open the **Applications** folder then double click the connection icon:





icon is as follows:



The screen opposite appears.					
Click the	Se déconnecter	button to			
disconnec	t the modem.				

00	I	Ethernet Adaptor (en1)	
Cor	figuration:	Ethernet Adaptor (en1)	; •
Status: Cor	nected to 10.	21.159.1	
Se	nd:		
Rece	ive:		
Connect Ti	me: 00:01:53		
IP Addr	ess: 10.21.15	9.11	Disconnect

Note: To confirm that the procedure has been successful, the screen should show the "**Idle**" state and the **Connect** button.

4 - Installation in Mac OS X



If you checked the "Show status in menu bar" box (see step 5), you can also proceed as follows:

Click the connection icon _____ located in the menu bar.

Select Disconnect.



4.2.2 DHCP connection mode

1	4	000 Network
(Click the (apple) menu in the	Show All Displays Sound Network Startup Disk
	Preferences" then click the "Network"	Location: ADSL USB Routed IP 🕴
	icon	Show: Ethernet Adaptor (en1)
	The screen opposite appears.	TCP/IP PPPoE AppleTalk Proxies
		Configure: Using DHCP 🗘
	The Location: field should contain ADS USB Routed IP.	Domain Name Servers (Optional) IP Address:
	The Show: field should contain	(Provided by DHCP Server) Subnet Mask:
	Ethernet adapter.	Router: Search Domains (Optional)
		DHCP Client ID: (Optional) Ethernet Address: 00:60:4c:04:b1:0d
		Click the lock to prevent further changes. Apply Now

- 2 Select the TCP/IP tab and the relevant panel appears.
- 3 The **Configure:** field should contain **Using DHCP** by default. If not, select this setting from the drop-down list.

Note: If the **Using PPP** setting is displayed, select the **PPPoE** tab then uncheck the **Connect using PPPoE** box.

- 4 Click Apply Now to confirm connection in DHCP mode.
 - Note: The DHCP client, Domain name servers and Search domains fields are optional.

4.3 SAGEM F@st[™] 908/948 modem status

4.3.1 Checking installation of the SAGEM F@st[™] 908/948

Click the (apple) menu in the menu bar, select "System Preferences", then click the "network" icon. The screen opposite appears.

1

The Location: field should contain ADSL USB PPPoE / PPPoA.

The **Show** : field should contain **"Ethernet adapter (in x)**", in which "x" is a number assigned by the operating system.

Select the **TCP/IP** tab. In the corresponding panel, the **Configure :** field should contain **Using PPP**.

2 Select the **PPPoE** tab and the panel opposite appears.

Check that the "Connect using PPPoE" box is checked and that the "Account name" and "Password" fields are correctly completed.

SAGEM F@st™ 908/948 Reference Manual - USB Interface – 288 05	5 881 – 01
Reproduction and communication prohibited without written permission of SAGEM SA	Page 4-9

00		Network	C
	Location: AD	SL USB PPPoE / PPPoF	
Show:	Ethernet Adaptor (en1)		_
	TCP/IP PPPoE	AppleTalk Proxies	
	Configure: Using PPP	•	
		DNS Servers (Optional)	
	IP Address: (Provided by PPP Se	rver)	
	Subnet Mask:		
	Router:	Search Domains (Optional)	
Eth	ernet Address: 00:60:4c:07:c0:	Example: apple.com 36 earthlink.net	
) (i)	lick the lock to prevent further cha	inges. (Revert) (Apply Now	

	Locatio	n: ADSL	USB PPPoE /	PPPoJ 🛟	
show:	Ethernet Adaptor (en1))	•		
	TCP/IP	PPPoE	AppleTalk	Proxies)
		Conne	ect using PPPo	E	
	Service Provider:				(Optional)
	Account Name:	login@is	p]
	Password:]
	PPPoE Service Name:				(Optional)
		Save p Checkin access	assword og this box allow this Internet acc Options)	vs all users o ount without	f this computer to entering a password.
		Show	PPPoE status i	n menu ba	r

4 - Installation in Mac OS X 432 "Diagnostics" tools



With this application, the user can monitor the status of the ADSL line and configure the SAGEM F@stTM 908/948 modem. This application is included on all the operating systems listed in section 1.4 - Prerequisites in the SAGEM F@stTM 908/948 Installation Guide

The "ADSL Monitor" diagnostics tool will have been added to your "Application" folder on your hard disk when the modem drivers were installed. You can access this directly by double clicking the "ADSL Monitor" short cut created on your desktop.



The functions of this tool are the same as those described in section 4.2.1 concerning MacOS 8.6 and MacOS 9 v

Uninstalling the SAGEM F@st[™] 908/948 4.4

Insert the CD-ROM in your computer's appropriate drive; an icon appears in the desktop. 1 Double click this icon to display the contents of the CD-ROM.

Uninstall

OS X

Ouit

Uninstall

- 2 Select **USB** then click in the **OS X** directory to run the Install/Uninstall program.
- Enter your account name and password in the authentication screen. 3

Note: You must have "Administrator" rights to uninstall the modem.

The screen opposite appears. 4

In the top left corner, select Uninstall	SAGEM FØst 908/948
drop-down list. Then in the bottom right corner, click	
the button.	Install Location krews will be uninstalled from the disk "Mac OS X 10.1.2" Install Location: Mac OS X 10.1.2

OK

5 This screen informs you that any applications you have opened will automatically be closed on uninstalling.



6 The message opposite prompts you to restart your computer before reinstalling the modem drivers.



7 Uninstallation is now finished. Click

You can now restart your computer.



The uninstall was successful.

 \odot

5 Problem solving in USB mode

This section :	۶	Describes how to interpret the LEDs visible on the SAGEM F@st TM 908 / 948 modem cover.	section 5.1
	۶	Describes how to solve problems in USB mode.	section 5.2

5 - Problem solving in USB mode

5.1 Interpreting the LEDs visible on the modem cover

LED	ADSL	PWR
On steady	ADSL synchronized	Modem powered up
Off	No ADSL sync	Modem not powered
Blinking	Trying to set up ADSL synchronization	Not applicable

5.2 Problem solving in USB mode

5.2.1 "ADSL" and "PWR" LEDs off

- > Check that the USB lead is correctly connected to your computer (or to a HUB).
- ➤ Check that the drivers are correctly installed (refer to the reference manual SAGEM F@stTM 908 / 948 USB interface and the sections dealing with the status of the modem in Windows® XP, MacOS 8.6-9.x or MacOS X).
- **Note:** If your computer is connected to a hub, disconnect all the devices connected to isolate your modem.

If there is no indication to help you solve the problem:

Install again (refer to the reference manual - SAGEM F@stTM 908 / 948 USB interface and the sections dealing with installation of the modem in Windows® XP, MacOS 8.6-9.x or MacOS X).

5.2.2 "ADSL" LED off and "PWR" LED on

- > Check that the line lead is correctly connected to your modem and to the telephone line.
- Check with your Internet access provider (IAP) that the ADSL service has been opened on your telephone line.

5.2.3 "ADSL" LED on steady and "PWR" on

In PPP mode

The modem is synchronized but the PPP link with your Internet access provider (IAP) is not set up; check:

- that the PPP "username" and "password" that you entered are those given to you by your Internet access provider (IAP),
- that the VPI/VCI parameters and encapsulation mode match those of your Internet access provider (IAP). If not, contact your IAP.

In DHCP mode

The modem is synchronized but does not receive an IP address from the network; check:

- that the VPI/VCI parameters and encapsulation mode match those of your Internet access provider (IAP). If not, contact your IAP.

5 - Problem solving in USB mode

SAGEM SA Network Division



Le Ponant de Paris - 27, rue Leblanc - 75512 PARIS CEDEX 15 - FRANCE Tél. : +33 1 40 70 63 63 - Fax : +33 1 40 70 66 40 http://www.sagem.com

SAGEM SA - Société anonyme à directoire et conseil de surveillance au capital de 36 405 229 €