

This Installation Guide is designed to get you up and running quickly. More detailed and regularly updated documentation is available in electronic format on our Internet web site **<http://www.telelink.ch>**. The enclosed CD-ROM not only contains the modem-scripts, but also the latest version of the online manual etc.

The description that follows should not be understood as a representation or guarantee of the functions concerned. There may be changes or variations to the software or hardware that are not included in this Installation Guide. If such changes are known to have a significant impact on the product, Telelink will release printed or electronic updates for this guide. Please contact your dealer if you have any queries.

All the brand and product names mentioned in this document are trademarks or registered trademarks of the relevant owners.

TELELINK AG
Gewerbestr. 11
CH-6330 CHAM
Switzerland

Issued: 27 September 1998 G.Taylor and R.Weiß
Telelink AG © 1996 - 1998

TELELINK
DIE SCHWEIZER **MODEM**MACHER

Errors and omissions excepted. Telelink reserves the right to make technical changes at any time.

Contents

FOREWORD	1
CONTENTS.....	2
IMPORTANT SAFETY INFORMATION	3
TELELINK TWIN MODEMS: MAKING FULL USE OF ISDN	4
TWIN TECHNOLOGY AND THE ACTIVE ISDN TERMINAL ADAPTER	5
PRODUCT OVERVIEW	6
SUPPORT	6
SYSTEM REQUIREMENTS	6
MODEM INSTALLATION	7
SWISSMOD TWIN / SWISSMOD TWIN LIGHT / SWISSMOD TWIN DUAL / SWISSMOD-56K	7
SWISSMOD TWIN USB (iMAC EDITION)	8
CARDLINE TWIN.....	9
SAFELINE AND SAFELINE-TWIN.....	

Important safety information

Please read these safety tips carefully and keep them in a secure place. Take note of any warnings and follow the instructions.

- Install the new modem according to the installation instructions that follow.
- Always use the adapter supplied to connect the modem to the mains supply.
- Connecting the modem to an unearthed mains socket can be dangerous.
- Be careful not to overload the mains connection (plug and cable), or you could cause a short-circuit or fire.
- Only use add-on devices that have been recommended by the manufacturer: other equipment can cause problems.
- Make sure no heavy objects are placed on the modem's power cable and that no one is likely to trip over the cables.
- If you need to clean the modem, switch it off and unplug it from the mains before you start. Only use a damp cloth - no detergent or cleaning agents.
- Never place the modem on an uneven or unstable surface.
- The openings and vents in the modem's casing provide ventilation for the electronics inside: they should never be blocked or covered. To prevent the modem overheating, never position the modem on a bookcase, shelf or similar piece of furniture, unless there is adequate ventilation. Always position the modem well away from central heating radiators.
- Never try to poke anything through the ventilation slits: the voltages inside the modem are dangerous and you could also cause a short-circuit.
- Never use the modem in a damp or humid environment such as the bathroom, kitchen, damp cellar or swimming pool.
- If your modem is not working properly, or if you hear unusual noises or smell burning, turn off the power immediately and unplug the modem. Take it to your dealer for repair.
- Never try to repair the modem yourself first. Have all repair and maintenance work performed by a qualified technician.

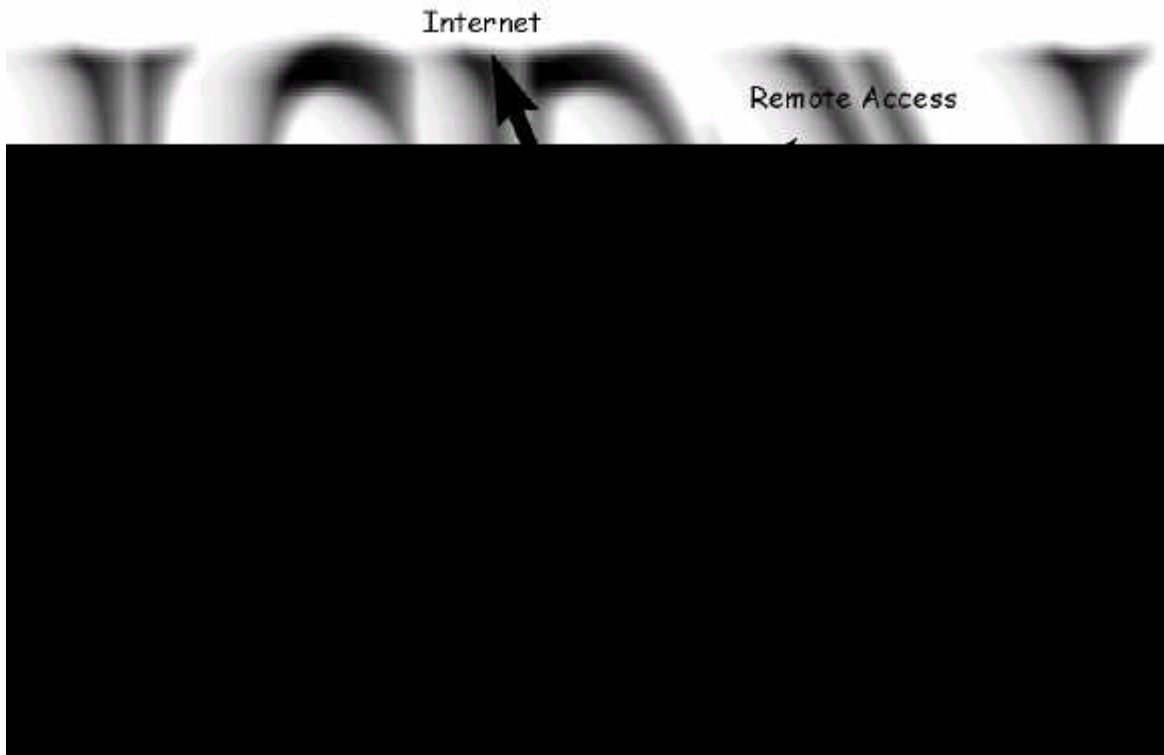
Telelink TWIN modems: making full use of ISDN

ISDN - the biggest step forward in communications in the nineties !

Each model in the TWIN family (SWISSMOD TWIN, SWISSMOD TWIN DUAL, SWISSMOD TWIN Light, Cardline TWIN and SAFeline TWIN) is equipped with special TWIN technology that allows you to make full use of ISDN capabilities, but to continue making analog communications via ISDN at speeds of 28800 bps (V.34 standard).

The message is clear, whether you are using the modem for advanced telephone operators' facilities (with the headset), for sending/receiving faxes, for standard mailbox options, for forwarding E-mail, for transferring bank transactions, for teleworking from home or as a simple way of transmitting large volumes of data very quickly over long distances:

TWIN modems satisfy all your requirements



TWIN modems are extremely versatile: they can be used for the Internet, BlueWindows, CompuServe, T-Online, Swiss Online, AOL, in-house mailbox systems, data transfer, remote maintenance, faxes, remote access, etc. More importantly, you save time and money thanks to the high ISDN speeds available.

TWIN modems use the AT command set, making them compatible with most operating systems, including DOS, Windows 3.x, Windows 95/98, Windows NT, UNIX, Linux, and Apple Macintosh.

TWIN Technology and the Active ISDN Terminal Adapter

A sophisticated combination of modem and ISDN technology

Since it will be some time before all communications equipment is ISDN-compatible, and analog technology is in any case often necessary to achieve a reliable fax link offering decent performance, Telelink has solved the problem by combining both worlds in its new TWIN technology.

TWIN modems combine the tried and tested Telelink modem technology with the very latest ISDN technology. They perform as fully-fledged ISDN terminal adapters (TA) and V.34 modems on the ISDN network. In addition, the Cardline TWIN and the SWISSMOD TWIN DUAL can also be operated via an analog line interface using a standard analog telephone socket.

All TWIN modems and terminal adapters are controlled with standard AT modem commands. This means you can continue using your installed modem software on the ISDN network. As far as you and your PC are concerned, TWIN modems behave like normal data/fax modems, but at ISDN speeds.

All software packages designed to be used with a modem also operate perfectly well with TWIN modems.



SWISSMOD TWIN - ISDN and V.34 modem for ISDN

SWISSMOD TWIN DUAL - ISDN and V.34 modem with analog and ISDN connection

SWISSMOD TWIN Light - the thoroughbred ISDN TA
(ISDN terminal adapter)
Swiss



Cardline TWIN
the optimal
laptop/notebook
and RAS modem
ISDN and V.34 modem
with analog and/or
ISDN connection



SAFEline TWIN
for use with a host
and in a PC environment
ISDN and V.34 modem

Product Overview

Please refer to the Telelink CD-ROM for information on configuring your modem for the internet etc. This installation guide describes how to connect the following Telelink products to your PC.

Swissmod-TWIN	Analog / ISDN hybrid modem for the ISDN telephone network. External device with serial-port
Swissmod-TWIN USB	Analog / ISDN hybrid modem for the ISDN telephone network. External device with USB-port
Swissmod-TWIN DUAL	Analog / ISDN hybrid modem for the ISDN or alternatively analog telephone network. External device with serial-port
Swissmod-TWIN Light	ISDN Terminal-Adapter with fax functions for the ISDN telephone network. External device with serial-port
Cardline-TWIN	Analog / ISDN hybrid modem for the ISDN telephone or alternatively analog telephone network. PCMCIA device
Safeline-TWIN	Analog / ISDN hybrid modem for the ISDN telephone network. External device with serial-port
Swissmod-56K	Hi-speed modem for the analog telephone network. External device with serial-port

Support

Customer support for all Telelink products is available from the following sources;

Online-Help:	HTML documentation on the Telelink CD-ROM
Internet:	http://www.telelink.ch or http://www.telelink.ch/mac/
Mailbox:	+41-41-7481079 (ISDN V.120 or analog V.34)
Fax:	+41-41-7481081
Email:	macsupport@telelink.ch
Hotline Switzerland:	157-6190 Refer country specific packaging information for Telephone number outside of switzerland

Please have the following information at hand when contacting us;

- Modem product-name
- Modem firmware version number. Start Zterm (terminal-programm) and enter the AT-commands; ati3<cr> and ati4<cr> (<cr> = ENTER key)
- Macintosh model-name / type
- Memory size (eg: 32MB)
- Operating-system version (eg: OS 8.1 etc)
- Name and version of the telecommunication programs you are using (eg; FaxExpress 4.x, FaxSTF 3.2, Mac CIM 3.x etc.)
- A short description of the problem and the steps needed to reproduce it including the type of connection (ISDN, analog, telephone-exchange etc.)
- Your full name and address including your email-address (preferred), telephone and fax-number

System Requirements

- All Telelink devices can be used in conjunction with Apple Macintosh computers, the only limiting factor being the serial-port speed on some of the older Macintosh models. This applies in particular to the 68000 devices like the Mac Plus, Classic, Ilvi, Ilfx und older PowerBook models.
- To attain the best possible transmission speeds, especially with ISDN, the computer and software must both support a DTE speed of 57600bps, 115200bps or better. The DTE rate (CONNECT) is defined as the transmission speed between the modem and computer and the DCE rate (CARRIER) is the transmission speed over the telephone-line.
- DMA serial-drivers (GeoPort) are supported.
- DTE speeds higher than 57600bps is only possible on Apple Macintosh Notebook computers with the introduction of the PowerBook 3400, PowerBook G3 and newer.
- All Telelink products within the Swissmod modem family must use the serial-cable delivered with the product. You can't use a standard Mac serial cable for the connection between your Swissmod and Macintosh (exception, Swissmod TWIN USB it uses a standard USB cable)

Modem Installation

Swissmod TWIN / Swissmod TWIN Light / Swissmod TWIN DUAL / Swissmod-56K

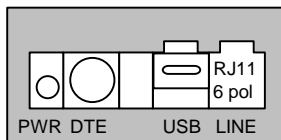
english

Swissmod TWIN USB (iMac Edition)

Before you start using your new SWISSMOD, make sure the following components are available:

- Swissmod TWIN USB
- ISDN telephone cable
- USB cable
- Telelink CD-ROM

Swissmod TWIN USB Rear-Panel

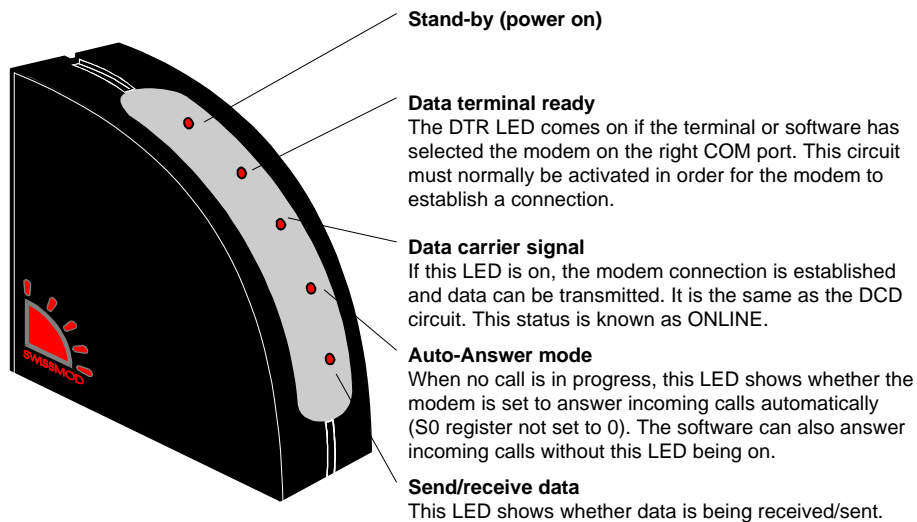


USB
Socket for Computer / Modem
USB connection cable

LINE **
Socket for ISDN telephone cable

Sockets DTE and PWR not used.

** The Swissmod-TWIN modem has 6 pin telephone sockets. Use a 6 pin / 8 pin telephone cable to connect to the ISDN network



Connecting the SWISSMOD to your Macintosh

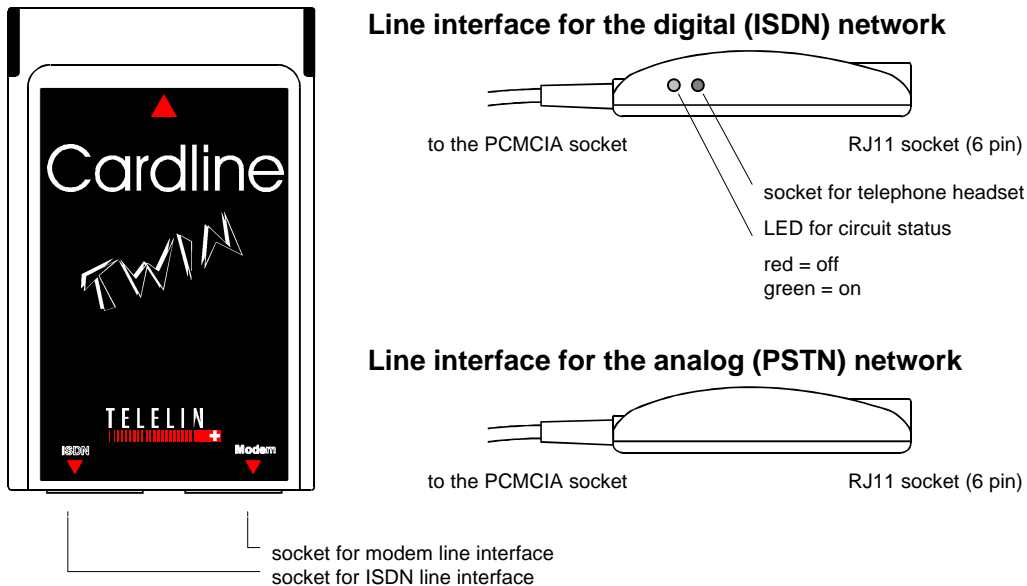
- 1) Connect the Swissmod TWIN USB with the flat end of the USB cable to a free USB socket on your Macintosh / iMac. You can also connect the Swissmod-Twin USB directly to an USB-hub if you are using one.
- 2) Connect the ISDN telephone socket and Swissmod-Twin USB together using the supplied telephone cable.
- 3) You do not need a power-adapter for the Swissmod TWIN USB as it draws its power from the USB port.

Cardline TWIN

Before you start using your new Cardline TWIN, make sure the following components are available:

- PowerBook with PCMCIA interface
- Cardline TWIN PCMCIA card
- ISDN and / or modem line interface module
- ISDN and / or modem connector cable
- Telmlink CD-ROM

Cardline TWIN is compatible with PCMCIA Standard Version 2.0, type 2.



Important safety warning:

- 1] The Cardline TWIN with the analog line interface can only be used with the analog telephone network
- 2] Connection to the DCE for the Cardline TWIN with analog line interface is limited to N coding.
- 3] The speech wires are not continued into the Cardline TWIN with the analog line interface. The Cardline TWIN can only be used as a single DTE on the DCE.

Warning!

The ISDN line interface must not be connected to the analog telephone network and vice versa! This can cause serious damage!

Connecting the Cardline TWIN to your PowerBook

- 1) Insert the Cardline TWIN into a free PCMCIA slot in your computer, with the Telmlink logo facing upwards and the red arrow pointing in the direction of insertion. There is no need to switch off the computer when you do this.
- 2) Depending on whether you want to connect your Cardline TWIN to an ISDN or an analog telephone socket, you first need to connect the "ISDN" or the "Modem" line interface to the modem using the flat connector. Carefully insert the flat connector into the socket of the Cardline TWIN until you hear it click into position. Make sure you insert the colour-coded flat connector the right way! The line interface module and the PCMCIA sockets are clearly labelled "Modem" and "ISDN".
Warning: only connect one line interface module at a time!
- 3) Finally, connect the line interface module to the ISDN or analog socket using the connector cable supplied.

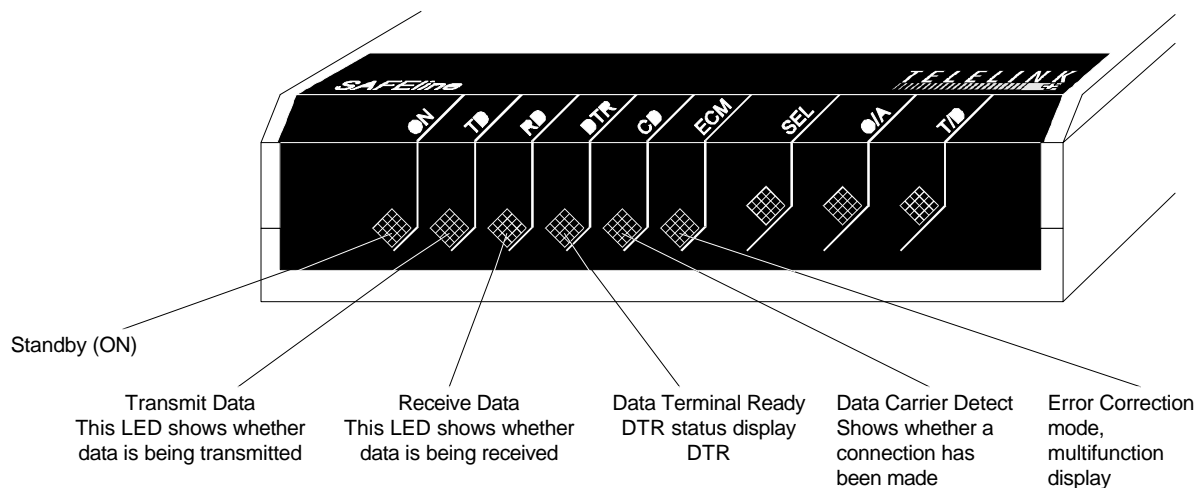
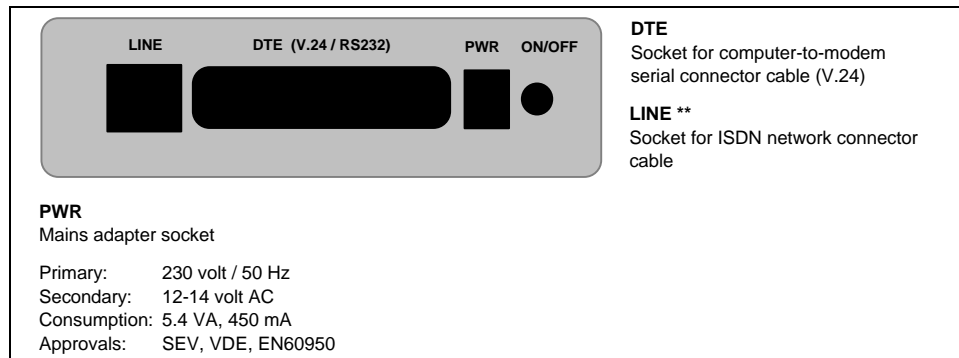
Shortly after inserting the Cardline-Twin into the PCMCIA slot you will see a icon appear on the desktop marked Cardline-Twin. Your Cardline-Twin may be immediately used in any application without having to reboot.

Safeline and Safeline-TWIN

Before you start using your new Safeline or Safeline TWIN modem, make sure the following components are available:

- Safeline or Safeline-Twin modem
- Power-adaptor 12 Volt AC
- ISDN or Analog telephone connector cable
- Serial connector cable
- Telmlink CD-ROM

The sockets for your Safeline and the ON/OFF switch are located on the back panel.



Connecting the Safeline or Safeline-TWIN to your Macintosh

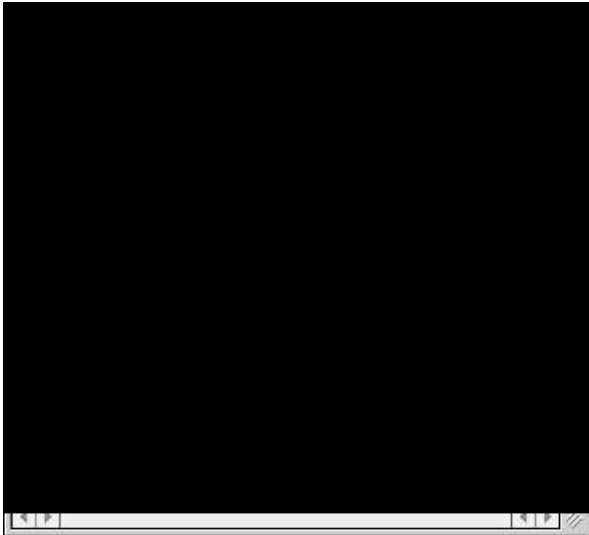
- 1) Use the serial cable to connect your computer to the Safeline modem. If you are using a PC with terminal emulation you can even use a standard cable that provides a 1:1 connection for all wires (9 for DB9 and 25 for DB25). Please check your PC manual or contact your PC dealer for information on free or occupied interfaces.
- 2) Connect the telephone socket to the Safeline using the cable supplied. If your socket is not compatible, contact a qualified electronics engineer or your local telephone company.
- 3) Now plug in the Safeline modem to the mains using the adapter supplied. The ON/OFF switch is located on the rear left of the modem as you view it from the front.

Configuring Your Modem

This documentation is supplied with all our products. The list at the beginning of each section will tell you at a glance if the information is applicable to your product or not.

Our documentation will be updated from time to time. You will always find the latest documentation on our website: <http://www.telelink.ch/mac>

Swissmod-TWIN ☒
 Swissmod TWIN USB ☒
 Swissmod TWIN DUAL ☒
 Swissmod TWIN Light ☒
 Cardline TWIN ☒
 Safeline TWIN ☒
 Safeline ☒
 Swissmod 56K ☒



Installing The Modem Scripts

Insert the Telelink CD-ROM and doubleclick on the CD-ROM icon when it appears. And start the Telelink Script Installer. The Telelink modem scripts for both our analog and ISDN devices will be installed automatically in the folder SYSTEM-EXTENTIONS / MODEM SCRIPTS. These scripts are the basis for connecting to the Internet together with OpenTransport PPP / ARA 3.x and the Modem Control-Panel.

You can also use the Modem Installation Program to manually install the according to your own choice including those scripts that are needed less often.

If you are using one of our ISDN modems then install the ISDN-MSDN utility as well. You will find an explanation on how to use this utility to configure your Multiple-Subscriber Number (MSN) in another section.

Installing ZTerm 1.0.1

ZTerm is a Shareware Programm and is supplied free of charge "as is". To use this program you are required to register it by the author for a small charge, please read the licence agreement.

- Open the folder ZTerm 1.0.1 und doubleclick on the icon ZTerm_1.0.1.sea.
- Choose a destination folder and click on install.



ZTerm is configured for the lower PCMCIA slot per default. When you start **Zterm** for the first time you will asked to choose the another port if required. Afterwards you can save the new settings.

First Connection

We strongly recommend that you make a test connection before continuing any further. This will help you check that all the cables have been correctly connected and that the modem is functioning correctly.

- Start **ZTerm** by doubleclicking on the icon **ZTerm**
- In the menu select DIAL / DIRECTORY...
- You will find there is already an entry for the Telelink MAilbox. The number is +41-41-7481079 add a 0 before the number if you are operating your modem behind a telephone exchange.
- Select the numner for the Telelink Mailbox and click on Dial. If the test connection was successful you will see a CONNECT message whereupon you can exit the mailbox.



Wenn Sie 'online' sind, d.h. das Terminalfenster geöffnet haben, werden alle Tastatureingaben an das Modem gesendet, welches diese entweder über die Telefonleitung an die Gegenstelle weiterschickt (wenn eine Verbindung aufgebaut wurde) oder aber als Befehlseingaben interpretiert (wenn noch keine Verbindung gewählt wurde). Das Terminalfenster benötigen Sie einerseits, wenn Sie in einem Telekommunikationsdienst, z.B. einem Bibliothekskatalog, Compuserve etc. eingewählt haben, und andererseits, wenn Sie Einstellungen am Modem vornehmen müssen (oder spezielle Parameter einstellen müssen vor einem Verbindungsaufbau).

Gehen Sie online, und tippen Sie **ati3i4 <Eingabetaste>** ein. Sie sollten darauf die Bezeichnung des Modems und die Version der Modemsoftware erhalten.

Multiple Subscriber Number (MSN) Configuration And Test

Generally speaking its not neccessary to configure an MSN number to make an outgoing call (eg; Internet or Fax). However, if you want to receive incoming calls (eg; Fax etc. or want a more detailed telephone bill), then you must enter an MSN number so that your Twin-modem knows when to pick up the call. You also need to enter an MSN number if your modem has been installed behind a telephone exchange.

You can configure the MSN number by using the ISDN-MSN utility (see picture below) on the Telelink CD-ROM or manually using a terminal program like ZTerm. To enter the MSN number manually start **ZTerm** and then enter the following AT-commands via the keyboard. If the entry was successfull you will see an OK in response.

```
at&f <CR>
at!n1="7481079" <CR>  example only
at&w <CR>
at%z1 <CR>
```

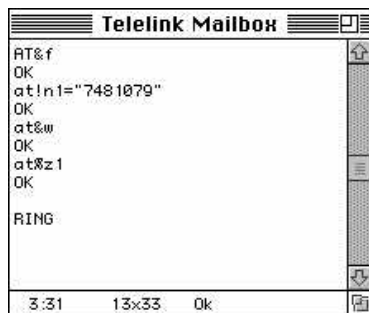
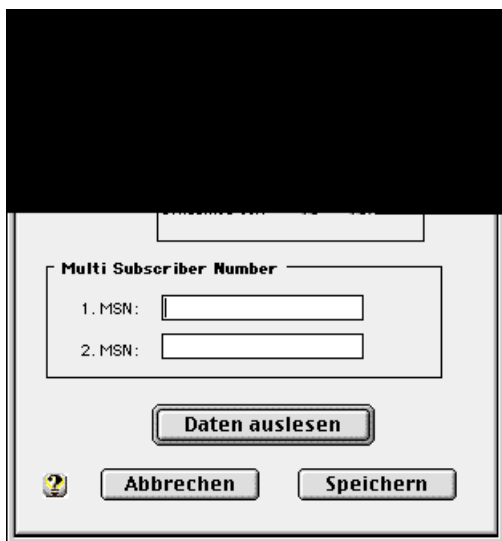
<CR> means press the EINGABE key. As soon as you have pressed **<CR>** you will see an OK message appear. If you should see an ERROR message then repeat the last command sequence.

You very rarely need to enter more than on MSN number.

You can check the MSN number you have entered with the AT-command `at&v2 <cr>` You can check that the modem is responding to the MSN by dialing the MSN number using a normal phone, you will see a RING message. Kontrollieren Sie die MSN Nummer indem Sie mit einem Telefon die soeben einprogrammierte Nummer anwählen; die Meldung **RING** muss auf dem Bildschirm erscheinen.

Note:

You will receive a list of MSN numbers from your telecom-provider, you are free to choose which of these numbers you want your Twin modem to respond to. In the example above the number 7481079 has been chosen. You do not need to enter the area code (known exception is the Netherlands). If you are connected behind a telephone-exchange the MSN number format will probably be the last 1 to 3 digits of the chosen number rather than 7 digits as on a direct connection. Also make sure that the ISDN data-services have been activated for the number you are using.



ated for the number you are using.

- Swissmod TWIN ☒
- Swissmod TWIN USB ☒
- Swissmod TWIN DUAL ☒
- Swissmod TWIN Light ☒
- Cardline TWIN ☒
- Safeline TWIN ☒
- Safeline ☐
- Swissmod 56K ☐

AppleTalk Remote Access (ARA-Scripts / Modem Scripts)

A lot programs (eg; AppleTalk Remote Access etc.) do not allow the user to manually adjust the modem settings, instead the user has to select between modem scripts as supplied by Apple or the modem manufacturer.

Swissmod TWIN ☒
 Swissmod TWIN USB ☒
 Swissmod TWIN DUAL ☒
 Swissmod TWIN Light ☒
 Cardline TWIN ☒
 Safeline TWIN ☒
 Safeline ☒
 Swissmod 56K ☒

Modem Scripts on the Telelink Support CD-ROM

TELELINK TWIN PPP	ISDN, HDLC / Synchron Point-to-Point protocol, supported by most Internet-Providers
TELELINK TWIN MLPPP	ISDN HDLC / Synchron Multi Link PPP, as above but both B-Channels are bundled together to give 128000bps, not widely supported yet
TELELINK TWIN V120	ISDN protocol supported by most Internet-Providers and mailboxes
TELELINK TWIN X75	ISDN protocol used by a number of smaller Internet-Providers and Mailboxes, especially in germany.
TELELINK TWIN V34	Analog protocol for Internet and mailbox connections up to 28'800 bps (V.34)
TELELINK TWIN DUAL V34	Analog protocol for Internet and mailbox connections up to 28'800 bps (V.34). Only fo use on the Swissmod TWIN Dual
TELELINK Swissmod 56K	Analog protocol for Internet and mailbox connections up to 56000bps down-stream (K56Flex / V.90)

The above mentioned modem-scripts are all automatically installed to the correct folder using the Telelink Scripts-Installer. Please refer to the section on FreePPP and Modem Init-Strings if you are using a Macintosh with an older OperatingSystem than System 7.5.3

Internet Configuration

The Macintosh uses the PPP protocol (Point-To-Point) to make a network connection (eg; Internet) over the telephone line. There are two way of configuring the Macintosh to do this. **If you are using a Macintosh with System 7.6 or newer then you can make a PPP connection via Open-Transport PPP / Remote Access. Please refer to the Telelink CD-ROM for further details.** Otherwise, if you are using a Macintosh Operating System older than 7.5.5 then we recommend using the shareware FreePPP.

Swissmod TWIN ☒
 Swissmod TWIN USB ☒
 Swissmod TWIN DUAL ☒
 Swissmod TWIN Light ☒
 Cardline TWIN ☒
 Safeline TWIN ☒
 Safeline ☒
 Swissmod 56K ☒

FreePPP is probably the most popular shareware PPP programm on the market. It uses MacTCP or Open-Transport (Network software von Apple, for communication over the Internet) to make the Point-To-Point connection to the Internet Service Provider (ISP) via Modem.

You will find the shareware **FreePPP** on the Telelink CD-ROM together with a detailed description on how to configure it. You will find all such documentation in the folder "Telelink Mac-Dokumentation".

Refer to the documentaion supplied by your Internet Provider for information on which protocol to use. Generally speaking most Internet Providers use V.120 or HDLC/PPP for ISDN and V.34 or K56Flex fur analog connections. You can refer to the Telelink CD-ROM for information on which modem init-string to use once you know which protocol to.

General Information

As of september 1998 all Telelink modem-scripts, drivers, utilities and information files for the MAC-OS are supplied on CD-ROM instead of diskette. You will find the very latest information and drivers on our website <http://www.telelink.ch>. The documentation is compatible down to System 7.5.3. However, a number of the recommended programs require Mac OS 8.x We strongly recommend updating to Mac OS 8.x if you are not using it yet, hardware permitting

Telelink Support CD-ROM

Contents of the Support CD-ROM;

- Installation program for Modem Scripts (Mac OS / ARA, Timbuktu and FirstClass)
- Installation program for Telelink USB-Geräte z.B. Swissmod TWIN iMac-Edition
- Installation program for existing users of FaxExpress
- The program FaxExpress Solo Lite
- ISDN-MSN Utility to configure the Multiple Subscriber Number (MSN) for ISDN
- HTML-documentation describing the configuration of diverse telecommunication programs (QuickTime 3 is required to view the movies)
- Technical documentation on Telelink modems

Advice for the users of older Macintosh-Systems

If you are unable to make a connection using the scripts provided then please use the Telelink Modem Script Installer to install the scripts stored under the entry "Mac without Geoport / max 56k". These scripts will function with all older Macintosh-Systems. These scripts are particularly useful for Mac 68k and PowerBook users using the PCMCIA slot.

Fast jeder PowerMacintosh und jedes PowerBook (ab PowerBook 3400 oder neuer) kann mit mehr als 57.600 bps zwischen der seriellen Schnittstelle und dem Modem kommunizieren. Ab PowerBook 3400 (oder neuer) ist auch eine höhere Geschwindigkeit über den PC-Card Steckplatz möglich.

Modem Scripts und INIT-Strings

You will find a description of the various Telelink modem scripts on the CD-ROM in the README file, these scripts have been all thoroughly tested. Should the need arise you will find a number of utilities on the CD-ROM which will enable you to adjust our modem scripts to serve your own individual needs.

The following modem init-strings can be used to configure those programs such as FreePPP that do not support the modem-script philosophy.

The AT-commands have been written here using small letters to ease the differentiation between digits and letters. AT-commands may be entered in small or capital letters but do not mix small and capital letters. Some programs will automatically change small letters into capital letters, please bear this in mind as the digit "0" and the letter "O" can look very similar at a first glance.

All the following modem init-strings have been tested up to and including firmware version v1.006e. Its possible that in future firmware versions the AT-command syntax for some commands might change, so be sure to check our website for the latest information <http://www.telelink.ch/mac>

TELELINK TWIN V34	at&f&d3w2%a3=1*b1\n4s55=06n0s37=31%o1
TELELINK TWIN V34 Fax-Modem	at&f&d3w2%a3=1*b1%o1
TELELINK TWIN V32	at&f&d3w2%a3=1*b1n0s37=19%o1
TELELINK TWIN V110	at&f&d3w2%a3=1%a2=1*i1%o0
TELELINK TWIN V120	at&f&d3w2%a3=1%a2=2*i1%o0
TELELINK TWIN PPP	at&f&d3w2%a3=1%a2=5*i1%o0
TELELINK TWIN MLPPP	at&f&d3w2%a3=1%a2=6*i1%o0

TELELINK TWIN X75	at&f&d3w2%a3=1%a2=8*i1%o0
TELELINK Swissmod 56k	at&f&d3w2s95=0
Seldom used modem-init-Strings	
TELELINK Safeline+ V32	at&f&d3w2n0s37=19
TELELINK Safeline+ V34	at&f&d3w2\n4s55=06n0s37=31
TELELINK Swissmod 56k V32	at&f&d3w2s95=0+ms=10,1,300,14400
TELELINK TWIN Dual V32	at&f&d3w2%a3=1*b1n0s37=19%o2
TELELINK TWIN Dual V34	at&f&d3w2\n4s55=06n0s37=31%o2
TELELINK TWIN Dual V34 Fax-Modem	at&f&d3w2*b1%o2

Repairs under warranty

If you experience problems with your modem while it is still under warranty, please notify any claims in writing within seven days.

If you notice any damage incurred during transport, please notify your carrier immediately.

Any claims for repair under warranty may only be dealt with by Telelink, or by dealers/distributors appointed by Telelink.

If you have to return a faulty modem, please ensure you enclose all the accessories (mains adapter, telephone cable, PC cable, etc.) if these are supplied as part of the standard package.

All carriage of goods to and from agents undertaking repairs under warranty is at the customer's own risk and expense.

Claims made under warranty are only valid if supported by the original invoice.

If an inspection of a modem does not reveal any faults covered by warranty, Telelink reserves the right to bill the customer for the cost of inspection.

All devices returned for repairs must be accompanied by a RMA number (Return of Merchandise Authorisation). A RMA number can be obtained from via telephone, email or fax.

Appendix A

Common and most important AT commands

ATA		Answer mode
ATD	I0417481079	Dials an ISDN-Number (0417481079) with the protokol set by AT%A2=
	M0417481079	Dials an analog Number (0417481079)
ATE	1	Enables the command echo
	0	Disables the command echo
ATH		Terminates a call (goes on-hook)
ATI	3	The TWIN sends it's name
	4	The TWIN sends the Firmwareversion
ATV	0	Numeric form responses enabled
	1	Verbose responses enabled (English responses).
ATZ		Recall User Configuration
AT&D	0	Ignores the DTR Signal
	2	While DTR is OFF the TWIN will not answer a call. If DTR drops for a period of S25 milliseconds while online, the call is immediately terminated.
	3	Same as &D2 includes a hardware reset
AT&F		Recall Factory Configuration
AT&K	0	Turns Flow control off
	3	Hardware Flow Control [RTS/CTS]
	4	Software Flow Control [Local Xon/Xoff]
AT&V2		Displays stored profiles 2 and 3 as well as the first 4 stored phone numbers and the stored MSN-Number
AT&W		Writes the Profile to Memory
AT%FAPPS		Reprogram FLASH with the applications. Before issuing the command set your terminal package to 115200, 8, N, 1. Once the modem indicates that it is ready to receive the update, upload the ROM file (*.S3) using ASCII or TEXT Protocol. Wait until the modem gives you more indications. Warning: This Command can damage your TWIN. Use this command only if recommended from our Hotline.
AT%Z1		Global Reset
AT*B	0	Set voice Information capability to SPEECH
	1	Set voice Information capability to 3.1 kHz
AT*D	1234567	Dial a Voice Call (example 1234567)
AT!C0=	2	Using 1TR6 (used in Germany with older central office)
	4	Using EuroISDN (Used in Switzerland and new central office in Germany), only active after AT %Z1
AT!C4=	0	Call will be assigned to Directory Number 1 as Data
	1	Call will be assigned to Directory Number 1 as Voice
	2	Call will be assigned to Directory Number 1 as any type
AT!C5=	0	Call will be assigned to Directory Number 2 as Data
	1	Call will be assigned to Directory Number 2 as Voice
	2	Call will be assigned to Directory Number 2 as any type
AT!N	1="7481076"	Defines the Directory Number 1 (Example: 7481076)
	2="7481076"	Defines the Directory Number 2 (Example: 7481076)
AT%A2=	1	V110
	2	V120
	5	PPP
	6	MLPPP
	7	V120 V42bis
	8	X75
AT%A3=	1	Prefer any channel
	2	Prefer B1
	3	Must use B1
	4	Prefer B2
	5	Must use B2
AT%O	0	ISDN data communication
	1	Modem data over an ISDN Voice channel

The **standard** settings

Further information on the AT-Command-Set can be found in the Online-Help (Telelink-Twin diskette) Informationen (AT-Befehlsatz usw.) zu den TWIN Modems enthalten sind.