

# KORTEX

# 56000

**USER GUIDE**  
**PC & MACINTOSH®**

**1.4 Version**

Works even when your  
**COMPUTER IS SWITCHED OFF**

**FOLLOW ME :**  
Calls you  
automatically  
when you  
receive faxes  
or voices  
messages



## **A POWERFUL VOICE MODEM**

**56 K BPS (K56 FLEX) capability**  
**Ideal for high speed Internet  
access**

## **ANSWERING MACHINE**

**A fully featured telephone-fax  
answering machine**

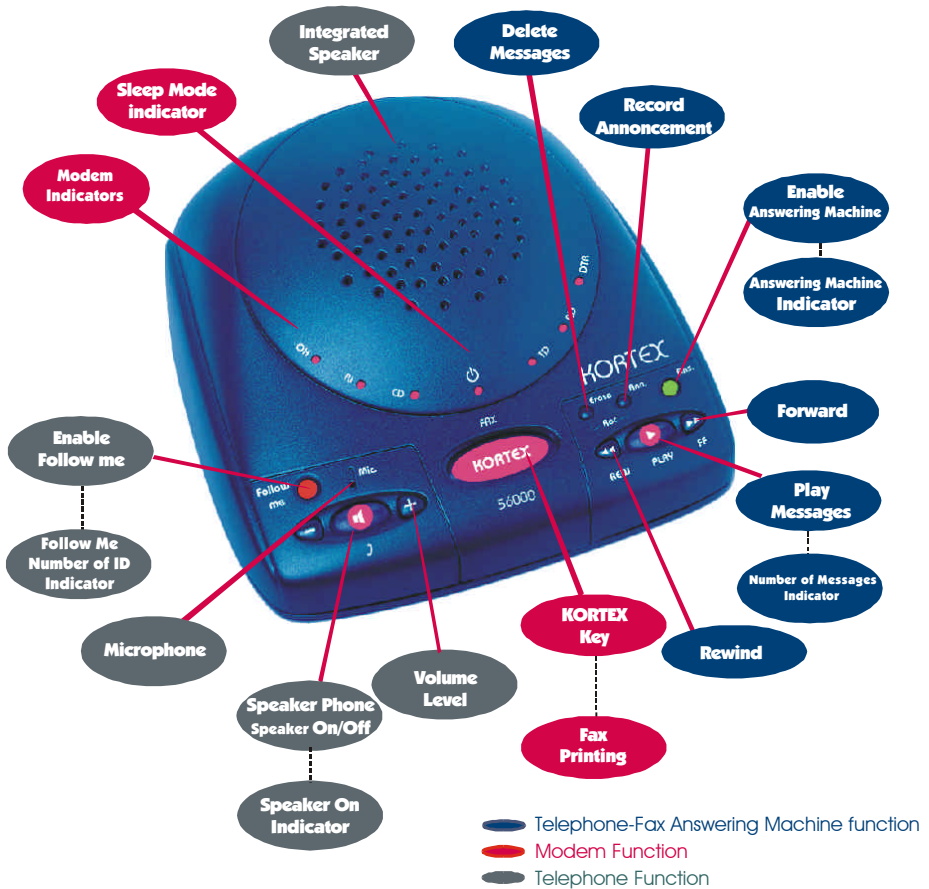
## **HANDS-FREE SPEAKERPHONE**

**Full Duplex Speakerphone**  
**No computer required**

**Print received faxes  
simply by pressing the  
KORTEX button**



# KORTEX 56000



Location and purpose of the **KORTEX 56000** function keys

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# PRODUCT REGISTRATION AND GUARANTEE

## Guarantee :

### 1. Description :

This guarantee gives you the right to a free replacement of any parts which are faulty due to a manufacturing defect.

### 2. Exclusions :

- a) All accidental damage cause by improper or incorrect usage.
- b) All damage caused by using the product with a non-standard telephone system or PABX.
- c) All damage cause by exceeding the recommended voltage, product abuse, customer negligence, defective electrical supply, failure to follow the installation or usage instructions or opening of the product casing by the customer or a third party.
- d) This guarantee also excludes any damage resulting from major force due to a third party.

### 3. Payment of damages :

The guarantee does not give any right to payment of damages for losses caused by the unavailability of the product.

### 4. Other Terms and Conditions :

- a) No distributor or reseller has the right to change the terms of this guarantee.
- b) This guarantee does not effect your consumer rights.
- c) To take advantage of the guarantee you must return the product registration form below within 15 days of the date of purchase of your modem.
- d) The modem serial number must not have been modified or removed.

**To benefit from this guarantee, you must complete the product registration form, which must include the serial number marked on the case (not that of disks) and return it within 15 days of purchase to the address indicated overleaf. Please note that if you fail to return the product registration certificate with this 15 days period, the guarantee will cover only the first year of usage.**

## KORTEX 5 years product guarantee registration

|                            |             |
|----------------------------|-------------|
| Name :                     |             |
| Surname :                  |             |
| Company :                  |             |
| Job Title :                |             |
| Address :                  |             |
|                            | Post Code : |
| City :                     |             |
| Tel :                      | Fax :       |
| Serial N°:                 |             |
| Name address of reseller : |             |
| Product Name :             |             |

|                                                                       |
|-----------------------------------------------------------------------|
| <b>Date of purchase :</b>                                             |
| <b>Please indicate three factors which influenced your purchase :</b> |
| <input type="checkbox"/> Product design                               |
| <input type="checkbox"/> Company Reputation                           |
| <input type="checkbox"/> Advice of your reseller                      |
| <input type="checkbox"/> Price                                        |
| <input type="checkbox"/> Technical specification                      |
| <input type="checkbox"/> The answer phone feature                     |
| <input type="checkbox"/> Modem feature                                |
| <input type="checkbox"/> .....                                        |

## **WHY RETURN YOUR PRODUCT REGISTRATION CARD?**

**YOU WILL BENEFIT FROM A 5 YEARS GUARANTEE**

**YOU WILL RECEIVE INFORMATION ABOUT UPGRADES**

By returning your product registration card, KORTEX will keep you informed on the availability of new upgrades to your hardware and software : prices, special upgrade offers, technical specifications

**YOU WILL RECEIVE PRIORITY UPDATES**

KORTEX will keep you informed of the latest news, products, promotions and technical information.

## **HOW TO BENEFIT FROM THE SUPPORT HOT-LINE :**

You can take advantage of the KORTEX support hot-line during the first 120 days following the purchase of your modem. by sending a fax to +33 (0) 1 49 92 55 48, and our highly trained support engineers will give you personal technical assistance, please note your system configuration (modem type, machine, operating system, communications software, type of phone line...) and notes your questions on the fax.

## **HOW TO RETURN A FAULTY PRODUCT :**

When returning your faulty modem to the repair centre during the 5 years guarantee period, it is essential that you include a copy of your original purchase invoice. You must also have previously returned your product registration form within 15 days of the date of purchase of your modem. We also ask you to include a description of the fault that you have encountered.

-----



**Affix  
Stamp**

**KORTEX INTERNATIONAL  
SERVICE REPARATION  
139, 147 AVENUE PAUL-VAILLANT COUTURIER  
93126 LA COURNEUVE CEDEX FRANCE**



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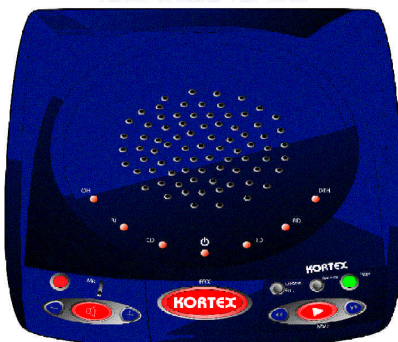
## User Safety Precautions

### Declaration

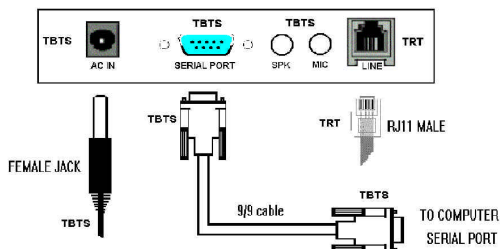
The KORTEX 56000 conforms to the **IEC 950** standard for electrical safety. The unit does not contain a circuit breaker, the wall plug provides the only mechanism to break the power. Furthermore, the mains electrical socket must be in easy reach of the unit.

### Connector schematic

KORTEX 56000 TOP VIEW



KORTEX 56000 REAR VIEW



*TRT : PSTN voltage*  
*TBTS : Very low voltage*

---

## CE Approval Marks

This product conforms with directives **CEM 89/336/CEE** for electromagnetic interference and **CEM 73/23/CEE** for user safety.

---

## Telephone Network Safety Approval

This product conforms to the standard **EN 41003**. It can be connected to telephone networks.

---

## Installation safety precautions

-  Avoid placing the KORTEx 56000 in a humid environment or near to a heat source.
-  Please do not open the case of your KORTEx 56000, contact after sales service for all repairs.
-  Where there is a high risk of storms, protect your KORTEx 56000 against electrical shock.

---

## Cleaning

-  Before cleaning your KORTEx 56000, unplug the power and telephone cables.
-  Do not use solvent based cleaning products.

---

## Approval

This product may only be used legally in those countries for which it is approved. Approvals obtained are shown on the label fixed to the underside of the case.

---

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## Introduction



You have just purchased a **KORTEX 56000**, which supports all major communication functions operating either standalone or in conjunction with a computer:

- ✿ High speed modem
- ✿ Fully-featured Telephone/Fax answering machine
- ✿ Hands-free telephone
- ✿ Caller ID Presentation
- ✿ Flash upgradeable firmware

The KORTEX 56000 was conceived as a modem for today that is capable of evolving to meet your needs of tomorrow.

Both the KORTEX 56000 hardware and software can be upgraded. It's new **DSP** (Digital Signal Processor) architecture enables you to upgrade the modem easily as your needs and as modem technology develops.

One of the unique features of the KORTEX 56000 is its upgrade socket which enables it to be upgraded to support future technologies simply by inserting optional upgrade modules.

The **K.A.O.S.**<sup>®</sup> (**K**ORTeX **A**dvanced **O**perating **S**ystem) in the KORTeX 56000 can be flash upgraded to meet many upgrade requirements simply by downloading a new version.

Numerous function keys and LED's on the KORTeX 56000 enable you to easily access all major communication features.

The KORTeX 56000 supports Plug & Play. Used in conjunction with your PC/Macintosh, it becomes an extremely powerful communication tool :

- ✱Internet (up to 56000 BPS)
- ✱Fax
- ✱On Line services
- ✱Answer phone
- ✱File transfer
- ✱Telephony functions...

The KORTeX 56000 supports all major communication functions operating standalone or in conjunction with a PC.

The KORTeX 56000 is fully compatible with Windows 3.1, Windows 95 and Windows NT (modem drivers and communications software for Windows 95 and NT 4.0 are supplied) and Macintosh V 7.5 or later.

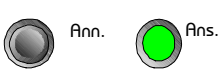


## KORTEX 56000 features

### KORTEX 56000 function keys

Using the keys on the KORTEX 56000, you can easily access the available functions:

| KEY                                                                                                                   | FUNCTION                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                      | Enable the answer phone feature.                                                                                                                                                                   |
|                                      | Replay voice messages.                                                                                                                                                                             |
|                                      | <p>Prints a fax (provided the computer is switched on and necessary software is loaded).</p> <p>If the computer is switched off, this button announces the number of faxes received.</p>           |
| <p>Follow me</p>                     | Announces the telephone number, date and time of calls (the announcement of the telephone number requires that you have subscribed to the 'Caller ID' service of your telephone service provider). |
| <p>Erase Rec</p>                   | Erase all stored voice messages.                                                                                                                                                                   |
| <p>Erase Rec</p>                   | Erase all stored fax messages.                                                                                                                                                                     |
| <p>Erase Rec</p> <p>Follow me</p>  | Erase details of calls received (number, date, time).                                                                                                                                              |

| KEY                                                                                 | FUNCTION                                                           |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------|
|    | Hands-free call or answer.                                         |
|    | Volume adjustment.                                                 |
|    | Record your greeting message.                                      |
|    | Replay greeting message.                                           |
|    | Replay voice messages, next/previous message, stop message replay. |
|    | Activate call screening.                                           |
|    | Set the date and time.                                             |
|    | Set the PIN code.                                                  |
|   | Announce the date and time held by the KORTEx 56000.               |
|  | Announce the currently installed firmware version (date and time). |

**Note :** Each key press is indicated by an LED (lit, unlit or flashing).

| BUTTON AT THE BACK OF THE KORTEx 56000                                              |                            |
|-------------------------------------------------------------------------------------|----------------------------|
|  | KORTEx 56000 ON/OFF Switch |

---

## Supplied software features

- Start sleep mode to save energy.
- Set/Adjust the PIN number.
- Retrieve the configuration and system messages (verbal messages enable you make use of the features of the KORTEX 56000).
- Retrieve stored messages, faxes and telephone numbers (requires 'Caller ID' service) .
- Print a received fax from the 'Print' menu or by pressing the KORTEX function key(your computer must be switched on and the software loaded) .

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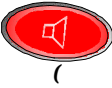
## The LED indicators

Your modem has 7 LED indicators and 5 back light function keys which have the following function:

| LED / KEY                                                                               | MEANING                           | FUNCTION                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Sleep mode and power on indicator | This LED is lit in yellow when the KORTEX 56000 is in sleep mode. It is lit in red when sleep mode is not active. It is unlit when the KORTEX 56000 is switched off.                |
|  DTR | Data Terminal Ready               | Lit when the KORTEX 56000 is in use by the computer. Unlit when the KORTEX is in stand-alone mode, not in use by the computer (communication software not loaded) or in sleep mode. |

| LED / KEY                                                                                          | MEANING        | FUNCTION                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>RD</b>        | Receive Data   | Flashes when the KORTEX 56000 receives data or is in update mode (transfer of faxes/messages etc onto the computer).                                          |
|  <b>TD</b>        | Transmit Data  | Flashes when the KORTEX 56000 transmits data.                                                                                                                 |
|  <b>OH</b>        | On Hook        | Lit when the KORTEX 56000 is using the phone line (receiving a fax, message, hands-free phone call ...).                                                      |
|  <b>CD</b>        | Carrier Detect | Indicates that modem to modem communication is in progress.                                                                                                   |
|  <b>RI</b>        | Ring Indicator | Signals that the KORTEX 56000 is receiving a call.                                                                                                            |
|                  | Faxes          | Unlit when the KORTEX 56000 has not received a fax. Flashes to indicate that faxes have been received. Lit during announcement of the number of faxes stored. |
| <br><b>PLAY</b> | Messages       | Unlit when the KORTEX 56000 has not received a voice message. Flashes to indicate that voice messages have been received. Lit during message retrieval.       |



| LED / KEY                                                                                      | MEANING                                      | FUNCTION                                                                                                                                           |
|------------------------------------------------------------------------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
|               | Hands-Free and Call screening                | Lit when the KORTeX 56000 is in hands-free mode. Flashes when call screening is active.                                                            |
|  Ans.         | Answer phone feature and Memory-full warning | Lit when the answer phone feature is active. Flashes when 90% of memory is filled with messages. Off when the answer phone feature is deactivated. |
| Follow Me<br> | Calls                                        | Unlit if the KORTeX 56000 has not received any calls. Flashes to indicate that calls have been received. Lit during replay of call details.        |

---

## Using your KORTEX 56000



The KORTEX 56000 is operated using the function keys. A key press takes effect when you release the key. A key or key combination must be pressed for approximately half a second in order to register.

When the KORTEX 56000 is switched on, for a brief period the indicator lights flash sequentially from left to right. When this flashing stops, the KORTEX 56000 is ready for use. As a general rule, you should not use the function keys whilst the sequential flashing is in progress.

Before using the KORTEX 56000, you must :

- » Record a greeting message
- » Set the date and time
- » Set the PIN number

Please read the following instructions to complete these operations.

**Note :** *Memory capacity is limited (Standard capacity : 2 Mb). We recommend that you delete your stored messages, faxes and numbers regularly. The Rep. LED flashes to indicate when only 10% of memory remains free.*

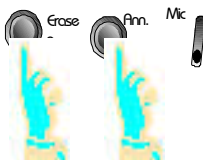
- » If you wish to increase memory capacity, you can add a flash memory upgrade module (see section «installation of a flash memory upgrade module»).

---

## Recording a greeting announcement

You are able to record a greeting announcement of up to 50 seconds in length.

- ◆ In order to record a greeting announcement, you must **press simultaneously** the following function keys:



- ◆ Release the function keys and speak clearly approximately 30cm from the KORTEX 56000 microphone.



- The **PLAY** function key is now lit to show you that the greeting announcement recording is in progress.

- ◆ To stop recording, press the announce function key.



- The **PLAY** function key is no longer lit.

---

## Replaying the greeting announcement

- ◆ To replay your greeting announcement, press the announce function key.



- The announcement is replayed through the KORTEX 56000 loudspeaker.



➡ The **PLAY** function key is now lit to show that the greeting announcement is being played.

➡ Replay stops automatically at the end of the announcement.

- ◆ If you would like to stop replay before the end of the greeting announcement, press the announce key again.



➡ The **PLAY** function key is non longer lit.

---

## Set the KORTEx 56000 date and time

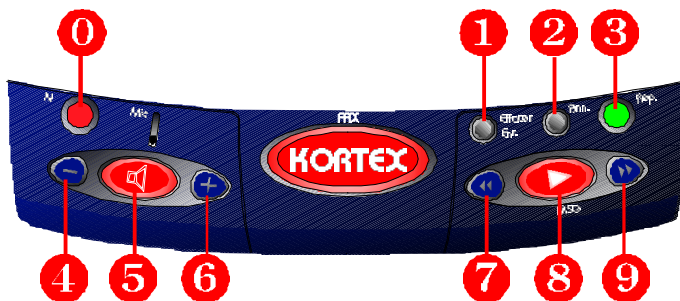
You can set the date and time either by using the KORTEx 56000 function keys or by using the supplied communications software.

- ◆ To set the date and time push simultaneously the function keys :



- ◆ You enter set-up mode.

➡ Enter **10 digits** to indicate the date and time. For example the **2 March 1998, 9.40am** should be entered as **0203980940** (**02** for the 2nd, **03** for March, **98** for 1998, **09** for 9 o'clock and **40** for forty minutes) by using the function keys as shown below :



**Note :** For simplicity, note the numbers corresponding to the date and time on a piece of paper before entering them. Each key press is confirmed verbally when you release the key. For example, on pressing the 8 (Play) function key you will hear “EIGHT” through the KORTEx 56000 loudspeaker.

- ◆ After entering the **10 digits**, the date and time is announced verbally for verification.

➡ If the date and time are not correct, restart the process from the beginning.

---

## Check the KORTEx 56000 date and time

- ◆ To check the date and time press the following keys simultaneously :



➡ The date and time are announced verbally

**Note :** if you would like to set the date and time, see the previous section : *Setting the KORTEx 56000 date and time.*

---

## Activate the answer phone feature

- ◆ To activate the answer phone feature, push the



function key

- The function key is now lit to indicate that the answer phone feature is active.

---

## Deactivate the answer phone feature

- ◆ To deactivate the answer phone feature without replaying the

greeting announcement, push the



Ans.

function key, (the function key is now unlit).

---

## If memory is full



The answer phone function key flashes to indicate that the KORTX 56000 memory is 90% or more full.

- ◆ To record new messages you must delete faxes, messages or numbers.
- When the memory is full, a pre-recorded greeting announcement «Thank you for your call» is played to callers.
- You can free up memory space either locally or by remote control.

---

## If you have received voice messages

- Waiting voice messages are indicated by the flashing of the



PLAY

function key.

---

## Replay voice messages



- ◆ Press the **PLAY** function key to replay voice messages, the KORTeX 56000 indicates verbally the number of messages received. The length of each message is limited to a maximum of 2 minutes.

➡➡ At the beginning of the replay of each message the time is announced. The date is announced only if it is different to the current date.

➡➡ At the end of replay of each message, the KORTeX 56000 proceeds to the following message

➡➡ At the end of replay of the last message, the KORTeX 56000 stops automatically.

---

### Stopping the replay of voice messages

- ◆ You can stop the replay of voice messages at any time by pressing the



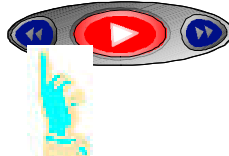
**PLAY** function key.

---

### Listen to the next or previous message

You can move from one message to the next during replay.

REW



FF

- ◆ Press the  function key to proceed to the next message or the  function key to return to the previous message.

---

## If you have received calls

At any time you can find out if you have received calls. To ascertain the telephone number of the caller, you must subscribe to your telephone service provider's «caller id» service. If you do not have this service, only the date and time of each call can be established.

- ◆ If you have received a call, the  function key flashes.

---

## Listen to the details of received calls

- ◆ Press the  function key to replay the number, date and time of calls received. The KORTEx 56000 announces verbally the number of calls received.
- ◆ The time is announced for each call. The date of the call is announced only if it is different to the current date.
- After announcing each call's details, the KORTEx 56000 proceeds to the next call.
- After announcing the last call's details, the KORTEx 56000 stops automatically.

---

## Stopping the replay of details of received calls

- ◆ At any time you can stop the replay of details of received calls by pressing the  function key.

---

## Listen to the next or previous call's details

You can move from one call's details to another during replay.



REW



FF

- ◆ Push the  function key to proceed to the next call or the  function key to return to the previous call.

---

## If you have received faxes



The  function key flashes approximately once a second if you have received a fax.



- ◆ Press the  function key. The KORTEx 56000 announces verbally the number of faxes received.

►► If your computer is switched on and the communications software is loaded the KORTEx 56000 will immediately print your fax.

---

## Erasing messages

You can erase all voice messages, all call details or all faxes.

---

### Erasing all voice messages



- ◆ To erase all voice messages, press the   function keys simultaneously.

---

## Erasing a voice message during replay



- ◆ To erase a voice message during replay, press the function key.

►► The message being played is deleted, the KORTÉX 56000 announces «message deleted» and plays the next message.

---

## Erase all call details



- ◆ To erase all call details records, push the function keys simultaneously.

---

## Erase all faxes



- ◆ To erase all faxes, push the function keys simultaneously.

---

## Loudspeaker volume adjustment

- ◆ To adjust the loudspeaker volume on the KORTÉX 56000 press the «+» and «-»  function keys.

**Note :** You can adjust the volume level during replay of a message (greeting announcement, system messages, call details ...) or in hands-free mode.

---

## Using the KORTEx 56000 in hands-free mode

The KORTEx 56000 enables you to answer a call without using a telephone handset. In hands-free mode you can adjust the speaker volume. If you wish to initiate a call in hands-free mode, you must dial the

number using a telephone handset before pressing the  function keys.

---

### Answering a call in hands-free mode

- ◆ To answer a call in hands-free mode, press the  function key and speak into the microphone .

➡ The  function key is lit to indicate hands-free mode and the  LED is lit to indicate that a call is in progress.

- ◆ To hang up, press the  function key again. The function key and the  LED are no longer lit.

---

### Making a call in hands-free mode

- ◆ Lift your telephone handset.
- ◆ Dial the recipient's telephone number using your handset, then press the  function key and speak into the microphone .
- ◆ Hang up your telephone handset.

➡ The  function key is lit to indicate hands-free mode and the  LED is lit to indicate that a call is in progress.

- ◆ To hang up, press the  key again. The function key and the  LED are no longer lit.

---

## Call screening

Call screening enables you to listen on the KORTEX 56000 loudspeaker. You can listen to your caller's telephone number, provided you subscribe to your telephone service provider's Caller ID service, or you can listen to a caller leaving a message without them hearing you. You can interrupt call screening by lifting the telephone handset (from any extension) or by initiating hands-free mode.

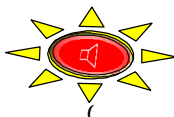
---

### Enabling call screening

- ◆ To enable call screening, press the



function keys simultaneously.



- The  function key flashes to indicate that call screening is active.

### Example of call screening with the answer phone feature switched on.

- You have switched on the answer phone feature and call screening
- You receive a call
- The caller's telephone number is announced (if you have subscribed to your telephone service provider's «Caller ID» service). The greeting announcement plays and recording begins. At any time you can accept the call by pressing the  function key.

### Example of call screening with the answer phone feature switched off.

» You have enabled call screening and switched off the answer phone feature.

» The caller's telephone number is announced (if you have subscribed to your telephone service provider's «Caller ID» service). At



any time you can accept the call by pressing the ( ) function key.

- ◆ In both of these two examples, the call details are stored in memory.

---

## Sleep mode

Sleep mode reduces electrical consumption and is only enabled by changing the modem settings using the communications software provided. Sleep mode ends automatically when a call is received or when a communication application is started (on DTR). In sleep mode, the «Caller ID» service is not active and the date and time of calls are not recorded.

---

## Remote control

The Remote control feature will only operate after a four digit PIN code has been set. You can set the PIN code using the communications software provide or using the KORTeX 56000 function keys.

**Note :** Remote control is only possible using a touch tone telephone handset.

---

### Setting the PIN code using the function keys

- ◆ To set the PIN code, press the three function keys simultaneously



» You are in PIN entry mode.



---

## Activating the answer phone feature remotely

It is possible to activate the answer phone feature remotely if you have forgotten to switch it on.

◆ To activate the answer phone feature remotely, dial your telephone number and let it ring nine times.

➡ The KORTEx 56000 will answer and play the greeting announcement.

➡ Hang-up during the greeting announcement. The KORTEx 56000 is now set to answer calls.

---

## Guide to Remote Operation Keys

| Using your telephone, dial : | Function                                                                                                             |
|------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 0                            | Listen to Follow me information.                                                                                     |
| 1                            | During replay : erase the current message.<br>During the greeting announcement : record a new greeting announcement. |
| 2                            | Replay the greeting announcement / Stop recording of the greeting announcement.                                      |
| 3                            | Switch off the answer phone feature.                                                                                 |
| 4                            | Erase all voice messages.                                                                                            |
| 5                            | Hang up during remote control.                                                                                       |
| 6                            | Listen to Caller ID details.                                                                                         |
| 7                            | Listen to the previous message.                                                                                      |
| 8                            | Play messages.                                                                                                       |
| 9                            | Listen to the next message.                                                                                          |
| *                            | Access the voice menu «for more information».                                                                        |
| #                            | During replay of the greeting announcement : enter remote control mode.                                              |

---

## Follow me (automatic call back)

Follow me function allows you to be automatically advertised when you receive new messages on the KORTeX 56000. To use the Follow me function you may set a call back phone number and the calls times periods.

**Note :** If the call back phone number dialled by KORTeX 56000 is Busy or not responding it is redialled a second time.

---

### Set the KORTeX 56000 call back phone number

You can set the call back phone number by using the KORTeX 56000 function keys.

- ◆ To set the call back phone number push simultaneously the function

Follow

keys :  and . You enter set-up mode.

➤ Enter the **phone number** (don't forget the prefix if you are on a PBX) using the function keys as shown on graphic page 30 (Each key press is confirmed verbally when you release the key). For example the **01 49 92 55 55** should be entered digit by digit as **0149925555**

the end of the phone number is confirmed by pressing the  key.

---

### Set the KORTeX 56000 calling days

By default, the follow me function is set to call you back at the entered call back number 7/7 days. You can reduce the days range by using the KORTeX 56000 function keys.

- ◆ To set the days range push simultaneously the function keys :  and



You enter set-up mode.

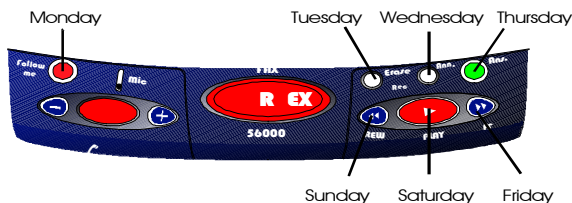
➤ Delete a day or more by using the function keys as shown behind (Each key press is confirmed verbally when you release the key). For

example to delete the Saturday and Sunday days press  and then press  and confirm the end of deleting by pressing the



key.






---

## Set the KORTEx 56000 calling times

- ◆ To set the calling time range push simultaneously the function

keys :  and  . You enter set-up mode.

➤ Enter **4 digits** to indicate one time call by using the function keys as shown on graphic page 30. For example **12.30 am** should be entered as **1230** (**12** for 12 o'clock and **30** for thirty minutes) The end

of the time is confirmed by pressing the  key.

➤ Enter **8 digits** to indicate two times call. For example **12.30am & 16.30 p.m.** should be entered as **12301630** (**12** for 12 o'clock and **30** for thirty minutes & **16** for 16 o'clock and **30** for thirty minutes. The

end of the times is confirmed by pressing the  key.

➤ To instruct the KORTEx 56000 to call you immediately after a new message has been received, enter the special number 9999. The KORTEx 56000 understands this mean 'immediately'.

---

## Remote change of the call phone number

To change the call back phone number remotely, dial your telephone number, follow the page 30 instructions (Controlling the answer phone feature remotely) press the **0 key** (use a touch tone telephone handset) to change the call back phone number. This feature will be available on our web site.

---

## Enabling Follow me



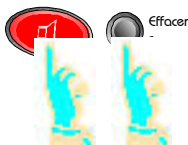
- ◆ To enable Follow me, press the function keys simultaneously. The action is confirmed verbally when you release the key.

---

## Recording a follow me announcement

We have recorded a follow me greetings message for you. If you want to change this announcement, you are able to record a follow me announcement of up to 50 seconds in length.

- ◆ In order to record a follow me announcement, you must **press simultaneously** the following function keys:



- ◆ Release the function keys and speak clearly approximately 30cm from the KORTX 56000 microphone.



- ▶▶ The function key is now lit to show you that the follow me announcement recording is in progress.

- ◆ To stop recording, press the announce function key.

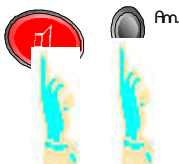


- ▶▶ The function key is no longer lit.

---

## Replaying the follow me announcement

- ◆ To replay your follow me announcement, press the SPK and announce function keys simultaneously.



- The announcement is replayed through the KORTX 56000 loudspeaker.



- The **PLAY** function key is now lit to show that the follow me announcement is being played.

- Replay stops automatically at the end of the announcement.

- ◆ If you would like to stop replay before the end of the follow me announcement, press the announce key again.

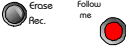


- The **PLAY** function key is no longer lit.



## Quick Guide to KORTEX 56000 features

----- Cut here -----

| KEYS                                                                                | FUNCTION                                                                                                                                                                                                       |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Switch the answer phone feature on or off.                                                                                                                                                                     |
|    | Replay voice messages.                                                                                                                                                                                         |
|    | Print a fax (when the computer is switched on and the communications software is loaded). Announce the time faxes were received and the number of the sending fax machine (when the computer is switched off). |
|    | Announce the telephone number of received calls (if you have subscribed to the «Caller ID» service of your telephone service provider). Announce the time or date of calls.                                    |
|    | Delete all stored voice messages.                                                                                                                                                                              |
|    | Delete all stored faxes.                                                                                                                                                                                       |
|    | Delete details of received calls .                                                                                                                                                                             |
|   | Call or answer in hands-free mode.                                                                                                                                                                             |
|  | Volume adjustment.                                                                                                                                                                                             |
|  | Record the greeting announcement.                                                                                                                                                                              |
|  | Replay voice messages, proceed to the next message, return to the previous message, stop message replay.                                                                                                       |
|  | Start call screening (listen to incoming call numbers and messages).                                                                                                                                           |



----- Cut here -----

**Remote control (Using a touch tone telephone)**

| <b>Dial :</b> | <b>Function</b>                                                                                                   |
|---------------|-------------------------------------------------------------------------------------------------------------------|
| <b>0</b>      | Listen to Follow me information.                                                                                  |
| <b>1</b>      | During replay : erase the current message. During the greeting announcement : record a new greeting announcement. |
| <b>2</b>      | Replay the greeting announcement / Stop recording of the greeting announcement.                                   |
| <b>3</b>      | Switch off the answerphone feature.                                                                               |
| <b>4</b>      | Erase all voice messages.                                                                                         |
| <b>5</b>      | Hang up during remote control.                                                                                    |
| <b>6</b>      | Listen to caller ID details.                                                                                      |
| <b>7</b>      | Listen to the previous message.                                                                                   |
| <b>8</b>      | Play messages.                                                                                                    |
| <b>9</b>      | Listen to the next message.                                                                                       |
| <b>*</b>      | Access the voice menu «For more information».                                                                     |
| <b>#</b>      | During replay of the greeting announcement : enter remote control mode.                                           |



---

## Installing your KORTEx 56000 on a PC

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### Recommended configuration

|               |                |
|---------------|----------------|
| Computer      | PENTIUM        |
| Colour screen | SVGA 800 x 600 |
| Hard disk     | 1.2 Go         |
| Memory        | 16 Mb          |
| Windows       | 95 or later    |

Installation of your modem is straight-forward, and requires only five steps :

1. Connecting the modem to your PC
2. Connecting the modem to mains power and to the telephone line.
3. Connecting optional peripherals
4. Installation of the modem driver (for Windows 95 or later)
5. Software installation.

This chapter shows you the procedure to follow to complete the first three of these steps. The fourth step is detailed in the section entitled *Installing the modem driver (Windows 95, NT 4.0)*. To install the software, see the software documentation.

---

### Contents of the box (PC version)

Before beginning installation, check that you have all the necessary parts. In addition it is recommended that you make a backup copy of the disks containing the software.

| <b>Contents (PC version)</b>                 |                                             |                                           |
|----------------------------------------------|---------------------------------------------|-------------------------------------------|
| <b>Standard</b>                              | <b>Plus version</b>                         | <b>Optional</b>                           |
| The KORTÉX ADAPTIX modem and its user guide. | Communications software                     | Stereo headset with integrated microphone |
| Serial modem cable                           | Internet access & on-line services software | Miniature Microphone                      |
| 12V AC Power supply                          |                                             | 16Mbit Memory Expansion module            |
| Telephone cable                              |                                             | Stereo cable Ø 3.5 mm                     |

---

## Step 1 : Connection to the PC

---

Finding a free PC serial port



Before you begin, check that one of the serial ports on your computer is free (COM1 or COM2). To do this, look for a socket at the back of your PC as shown :

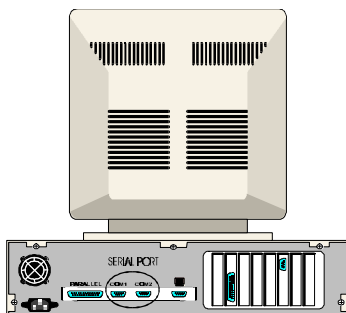


Figure 2 : Location of PC serial port connectors (DB 9 male)

**Note :** Your PC serial port connector may have 25 pins, in which case you will need to use a 9 pin male to 25 pin female adapter. You can purchase one of these adapters from your modem reseller.



Figure 3 : 9 pin male to 25 pin female adapter

If no serial port is free (it may for example be in use by a mouse or other device), you have two options :

- ⌘ Add a serial port to your PC (by buying an additional serial port card).
- ⌘ Replace your serial port mouse by a bus port mouse to free your existing serial port.

---

## KORTEX 56000 connectors

Before connecting your modem, check how each cable should be connected as shown in figure 4.

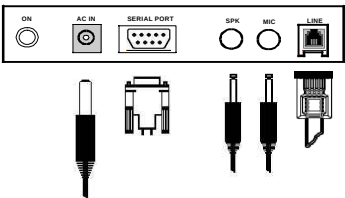


Figure 4 : KORTEx 56000 connectors



---

## Connection to the serial port

Connect the 9 pin male connector on the supplied serial cable to the female serial port socket on your modem.



*Figure 5 : DB 9 pin male- DB 9 pin female serial cable*

Check that the cable is firmly connected.

Connect the other end of the cable to your PC serial port (COM1 or COM2). If necessary use a 9 pin to 25 pin adapter(see figure 3).

Now go to step 2 : « Connecting the modem to the power and telephone cables»



---

## Installing the KORTEX 56000 on a Macintosh®

---

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### Step 1 : Connection to the Macintosh®

The installation of your KORTEX 56000 for Macintosh® is straightforward and requires four simple steps:

1. Connecting your modem to the Macintosh®
2. Connecting your modem to the power supply and telephone line
3. Connection of optional peripherals (not supplied with the KORTEX 56000)
4. Software installation

This chapter show you the procedure to follow to complete the first three of these steps. To install the software, see the software documentation.

---

### Contents of the box (Macintosh® version)

Before beginning installation, check that you have all the necessary parts. In addition it is recommended that you make a backup copy of the disks containing the software.



| <b>Contents (Macintosh version)</b>      |                                             |                                           |
|------------------------------------------|---------------------------------------------|-------------------------------------------|
| <b>STANDARD</b>                          | <b>In addition</b>                          | <b>OPTIONS</b>                            |
| KORTX 56000 modem and user guide         | Communications software                     | Stereo headset with integrated microphone |
| Macintosh DB9 to Mini Din 8 serial cable | Internet access & On-line Services software | 16Mbit Memory Expansion module            |
| 12V AC Power supply                      |                                             |                                           |
| Telephone cable                          |                                             |                                           |

---

### Locating the modem port

Before starting, you must locate a free Macintosh modem port. To do this, look for a socket marked with a telephone symbol at the rear of your Macintosh.



Figure 2'  
Macintosh modem port

---

### Macintosh® modem connectors

Before connecting your modem, check how each cable should be connected as shown in figure 4'.

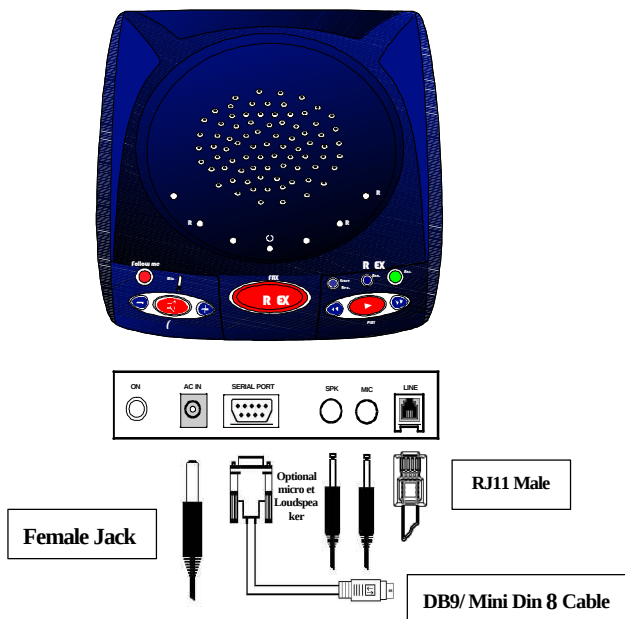


Figure 4' : KORTeX 56000 connectors (Macintosh® version)

## Connecting to the Macintosh® modem port

Connect the serial cable supplied to the female serial port on your modem and check that it is firmly pushed in.



Figure 5' : DB 9 male - Mini din 8 male serial cable

Connect the other end of the cable to your Macintosh® modem port(a female serial socket indicated by the telephone symbol).

---

## Step 2 : Plugging the modem into the power supply and phone line

---

### Connection to the power supply

Plug the power adapter into the power supply and connect the power cable jack to the female AC IN socket on your modem.



(12 V AC) Power supply adapter

**Note :** Do not use any other power supply adapter other than that supplied with your modem.

---

### Connection to the telephone line

Plug the telephone cable supplied into the LINE socket on your modem.



RJ11 MALE & FEMALE CONNECTORS

Plug the other end of the telephone cable into your telephone wall socket.



If you have a telephone handset plug this into the socket on the rear of the modem's telephone plug as shown below.



---

## Step 3 : Connecting optional peripherals

You can purchase the optional peripherals from your reseller.

---

### Connecting the headset to your modem

- The headset enables the user to use the hands-free feature without disturbing others nearby. Connect the headset's **red plug** to the **MIC** socket and the **black plug** to the **SPK** socket of your KORTeX 56000. These sockets are located at the rear of the modem.

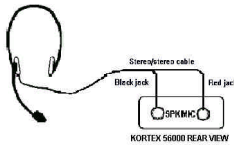


Figure 6 : Connection of the optional headset

---

### Connection to a sound card using the optional stereo cable (PC only)

If your PC has a sound card, you can use the optional stereo cable:

- Connect one end of the cable to the speaker outlet (SPK) at the back of the modem;
- Connect the other end to the LINE IN socket of your sound card. Alternatively, you can plug in speakers in place of a sound card.

---

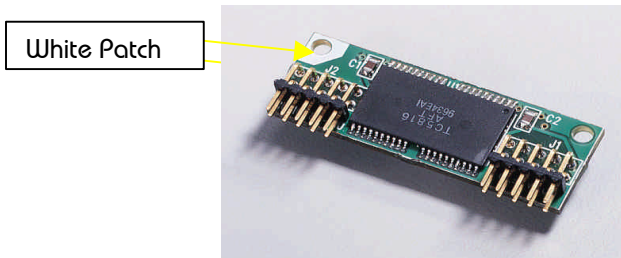
### Installation of a Flash memory expansion module

To install a Flash memory expansion module :



- ◆ Disconnect the KORTeX 56000 power supply.
- ◆ Unscrew and open the memory expansion socket cover which is located on the underside of the KORTeX 56000.

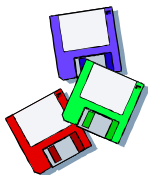
- ◆ Align the white patch on the Flash memory expansion module with the two white marks on the KORTeX 56000 motherboard.
- ◆ Once aligned, firmly push the male connector on the Flash memory



expansion module into the female connector on the motherboard.

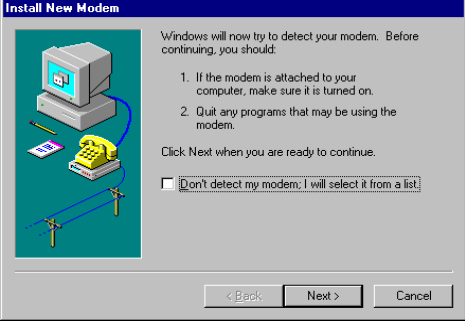
**Note :** *a second memory expansion module may also be inserted if required.*

- ◆ Close the memory expansion socket cover and replace the screw.
- ◆ Switch the modem back on.
- ◆ You can now use the additional memory to store even more faxes and voice messages.

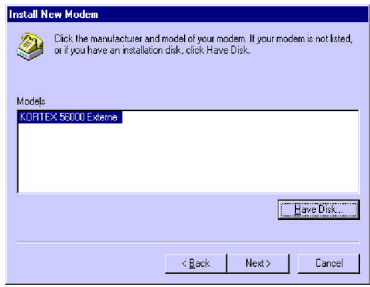
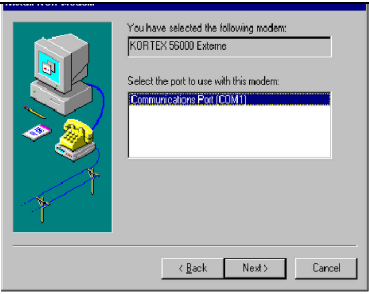


## KORTEX 56000 modem driver installation (Windows NT, 95, 98 or later)

You can install a modem driver which supports Windows 95 or NT communications applications (Hyper Terminal, Dial Up Networking which is used for connection to the Internet, Fax etc). To install the modem driver :

|                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Double-click on the icon                                                                                      | <br>My Computer                                                                                                                                                                                                                                                                                                                                                                           |
| Double-click on the icon                                                                                      | <br>Control Panel                                                                                                                                                                                                                                                                                                                                                                         |
| Double-click on the icon                                                                                      | <br>Modems                                                                                                                                                                                                                                                                                                                                                                                |
| Click on                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                           |
| Select the option Do not detect...                                                                            |  <p>The 'Install New Modem' dialog box shows instructions for Windows to detect the modem. It lists two steps: 1. If the modem is attached to your computer, make sure it is turned on. 2. Quit any programs that may be using the modem. It asks to click Next when ready to continue. The checkbox 'Don't detect my modem; I will select it from a list' is present and unchecked.</p> |
| Click on                                                                                                      |  <p>. In Install a new modem, select Disk supplied...</p>                                                                                                                                                                                                                                                                                                                               |
| Insert the Windows 95 driver disk (the drivers are located on disk 1 of the supplied communications software) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



|                                                                                                   |                                                                                                   |
|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| In Copy the files from : Indicate the floppy disk drive for example A:\.                          |                                                                                                   |
| Click on                                                                                          |                  |
| In Models, select the modem model that you have, for example, KORTEx 56000 External.              |                  |
| Click on                                                                                          |                  |
| Select the COM port ; if your modem is connected to COM2, select <i>Communication port (COM2)</i> |                  |
| Click on        | then, click on  |

The installation of the Windows 95 modem driver is now complete, you can now use Windows 95 communication software that requires this driver.



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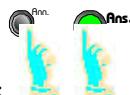
## Solving common problems

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### Checking the firmware version number of your KORTEX 56000

---



You can identify the firmware version number by pressing the function keys simultaneously.

- The KORTEX 56000 announces verbally the date and time of the installed version of K.A.O.S. (the KORTEX ADVANCED OPERATING SYSTEM).

---

### Checking that your KORTEX 56000 is installed correctly

---

#### Checking the answer phone feature

Check that you have connected the power and telephone cables. To enable

the answer phone function, don't forget to press the



function key.

---

### Testing your modem under Windows 3.1

---



1. Click on the **Accessories** program group then click on **Terminal**, a window is displayed which allows you to choose a serial port.
2. Select the serial port to which the modem is connected, e.g. COM2.
3. Click on **OK**, the Terminal window is displayed
4. Type AT then press Enter. The modem should respond OK. If the modem does not respond, check that your modem is switched on and that the correct serial port has been selected. See the section entitled Problem Solving.

After installing your modem under Windows 95 or NT 4.0, you can easily check that your modem is working. To do this :

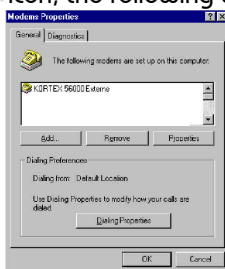
- 
- My Computer



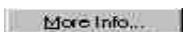
2. Double-click the  icon then double click the  icon



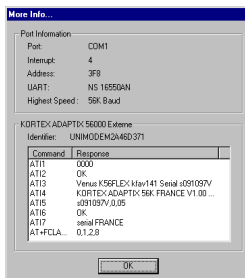
3. Double-click the **Modems** icon, the following window is displayed:



- Click on the Diagnostics tab and select the modem that you have just installed



5. Click on 
6. The following window is displayed if your modem has been installed correctly. If the Response column is empty, check that your modem is switched on and that the cables are connected correctly or change the COM port.





---

## Problem solving : Questions & Answers

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### Answer phone feature

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- ◆ The KORTEx 56000 does not record the greeting announcement.

➡ You are not speaking sufficiently close to the microphone. Record the greeting announcement again this time speaking closer to the microphone.



➡ You have not held down the two function keys  for a sufficient time. Press more firmly, the key press takes effect once you release the keys.



- ◆ The KORTEx 56000 is no longer recording incoming messages.

➡ Delete stored messages or faxes to release more memory.

- ◆ The KORTEx 56000 remote control feature does not work

➡ The greeting announcement does not stop until you press the # key. You cannot use a pulse dial telephone to remotely control the answer phone function. If you are calling from a phone box or from a digital phone, it may be necessary to press the \* key to make the keypad send audible tones.

- ◆ The KORTEx 56000 will not receive faxes.

➡ Check that the remote fax transmits on a frequency of 1100 Hz.

➡ If the remote fax does not use this frequency, use some terminal emulation software to send the HAYES command AT\*NC55Z to your modem.

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## Modem feature

- ◆ After the first failed call to a telephone number, my modem will not redial.
  - Use some terminal emulation software to send the HAYES command AT%TCB to your modem.
- ◆ What should I do if one of the messages : "Blacklisted" or "Delay" is displayed?
  - Use some terminal emulation software to send the HAYES command AT%TCB to your modem.
- ◆ You hear a dial tone, but the modem does not dial.
  - Check that your telephone cable is plugged in correctly. Is your modem plugged into an extension of a telephone switchboard(PABX)? Although KORTeX modems are designed to work with most switchboards, if possible, connect your modem to a direct telephone line to see if this resolves the problem. Note that your modem will only dial after detecting a standard 440Hz dial tone.
- ◆ You do not get a dial tone or the dial tone is not the one you normally hear when you use a direct telephone line.
  - Some telephone systems use digital extensions. Your modem will not work with this kind of telephone system. Use a direct line instead.
- ◆ Your modem dials, but without effect and you continue to hear the dial tone.
  - This often happens if you try to dial when your communications software is not configured correctly with regard to your telephone line. Your phone line must use tone (DTMF) or pulse dialling. To check the appropriate dialling mode, press a key on your telephone handset. If you hear a single tone (musical note), your phone line works with tone dialling; if you hear a series of clicks, your phone line works with pulse dialling. Configure your software appropriately.
- ◆ When you dial, you see the message "Unable to open communications port".

➤ The communications port is not configured correctly or is in use by another application. Check that the correct COM port is selected in your communications software.

◆ You are using an extension of a telephone switchboard.

➤ Check that in the "Dialling prefix" for your communications software you have entered the number necessary to obtain an outside line, followed by a comma (e.g. : "9," ).



## KORTEX 56000 Technical Specification

| TECHNICAL SPECIFICATION                 |                                                                                                                                                |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| HARDWARE                                |                                                                                                                                                |
| <b>Modem control language</b>           | HAYES AT compatible command set                                                                                                                |
| <b>Detection &amp; Installation</b>     | Plug & Play                                                                                                                                    |
| <b>DSP Processor</b>                    | LUCENT                                                                                                                                         |
| <b>Sleep mode</b>                       | The KORTEX ADAPTIX exits sleep mode on detection of RI (Ring Indicator), DTR (Data terminal Ready) or when the KORTEX function key is pressed. |
| <b>Expansion</b>                        | 1 expansion bay with 2 sockets for Flash memory expansion modules                                                                              |
| <b>Memory expansion options</b>         | Up to 32 M bits (2*16)                                                                                                                         |
| <b>Flash Memory (code)</b>              | 512 Kb                                                                                                                                         |
| <b>RAM</b>                              | 32 Kb                                                                                                                                          |
| <b>Flash Memory (data)</b>              | 16 M bits                                                                                                                                      |
| <b>Serial connector</b>                 | DB9 female                                                                                                                                     |
| <b>Loudspeaker</b>                      | 50 mm diameter                                                                                                                                 |
| <b>Microphone</b>                       | 6 mm diameter                                                                                                                                  |
| <b>Speaker output (SPK )</b>            | 3.5 mm diameter stereo                                                                                                                         |
| <b>Microphone input</b>                 | 3.5 mm diameter                                                                                                                                |
| <b>Backlit function keys</b>            | 5                                                                                                                                              |
| <b>Modem indicator lights (LEDS)</b>    | 7                                                                                                                                              |
| <b>Function keys</b>                    | 11 + 1 (On/Off)                                                                                                                                |
| <b>Weight</b>                           | 350 grams                                                                                                                                      |
| <b>Dimensions</b>                       | 140*145*65 mm                                                                                                                                  |
| VOICE MODEM                             |                                                                                                                                                |
| <b>Supported modem modulation types</b> | V21, V23, V22, V22 bis, V32, V32 bis, V34, K56 FLEX (Flash upgradeable), VOICE VIEW                                                            |

| <b>TECHNICAL SPECIFICATION</b>        |                                                                                                                                                                             |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Supported fax modulation types</b> | V27ter, V29, V17                                                                                                                                                            |
| <b>Fax interface</b>                  | Tr29 class 1, class 2                                                                                                                                                       |
| <b>Voice interface</b>                | Class 8 IS-101 (AT+V), Hands-free telephone                                                                                                                                 |
| <b>Configuration</b>                  | Stored factory default configuration                                                                                                                                        |
| <b>DTMF tone detection</b>            | DTMF tone detection active during message replay                                                                                                                            |
| <b>Voice encoding</b>                 | G729 AB (6.8 kbps-5.44 kbps)                                                                                                                                                |
| <b>Error correction</b>               | V42 (LAPM) MNP2 - 4                                                                                                                                                         |
| <b>Data compression</b>               | V42 BIS, MNP5                                                                                                                                                               |
| <b>Flow control</b>                   | RTS/CTS, XON/XOFF                                                                                                                                                           |
| <b>Diagnostics</b>                    | Auto test on power on, local analogue loop, local and remote digital loop                                                                                                   |
| <b>Communications</b>                 | Asynchronous                                                                                                                                                                |
| <b>Dialing</b>                        | Tone dialling (DTMF)                                                                                                                                                        |
| <b>Upgrade*</b>                       | Flash memory, upgrade software available on the Internet :<br><a href="http://www.kortex.com/">http://www.kortex.com/</a>                                                   |
| <b>PCM 56K* encoding</b>              | A law and $\mu$                                                                                                                                                             |
| <b>TELEPHONE</b>                      |                                                                                                                                                                             |
| <b>Hands-free telephone</b>           | SIMULTALK                                                                                                                                                                   |
| <b>Fax-Switch</b>                     | Fax/Voice/Data                                                                                                                                                              |
| <b>Caller ID presentation</b>         | You may subscribe to the 'Caller ID' service of your telephone service provider and your Caller Id has to be compatible with the US Caller ID or European caller ID system. |
| <b>Off-hook management</b>            | Off-hook detection of handsets on any extension                                                                                                                             |





## Commands and registers

The KORTEK 56000 is programmable by means of HAYES AT commands and registers. For more detailed information on these commands, you can download more detailed documentation from the Internet.

HAYES compatible AT commands:

| Command | Function                                           |
|---------|----------------------------------------------------|
| /       | Display firmware version                           |
| A/      | Repeat last command                                |
| A       | Answer mode                                        |
| B       | Select modulation type                             |
| B0      | V22                                                |
| B1      | Bell 212 A                                         |
| B2      | V23                                                |
| B3      | V23                                                |
| B15     | V21                                                |
| B16     | Bell 103J                                          |
| D       | Dial mode, followed by (L P T, W V @ ! ; ^ S=n \$) |
| EO      | Echo off                                           |
| E1      | Echo on                                            |
| H0      | Hang up                                            |
| I0      | Display firmware version                           |
| I4      | Display firmware version                           |
| L0-L1   | Volume adjustment (low)                            |
| L2      | Volume adjustment (medium)                         |
| L3      | Volume adjustment (high)                           |
| M0      | Disable loudspeaker                                |
| M1      | Enable loudspeaker during connection               |
| M2      | Enable loudspeaker during communication            |
| M3      | Enable loudspeaker on answer                       |
| N0      | Handshake using ATB or S37                         |
| N1      | Handshake using ATB or S37 with reply              |
| O0      | Off hook                                           |
| O1      | Go on-line and reinitiate Handshake                |
| O3      | Renegotiate speed                                  |
| P       | Pulse dialling                                     |

| Command                | Function                                                           |
|------------------------|--------------------------------------------------------------------|
| <b>Q0</b>              | Send return codes                                                  |
| <b>Q1</b>              | Do not send return codes                                           |
| <b>S</b>               | Access to S registers                                              |
| <b>T</b>               | Tone dialling                                                      |
| <b>V0</b>              | Numeric responses                                                  |
| <b>V1</b>              | Verbose responses                                                  |
| <b>W0</b>              | Connection return codes sent to DTE Protocol return codes disabled |
| <b>W1</b>              | Connection return codes sent to DTE Protocol return codes enabled  |
| <b>W2</b>              | Connection return codes sent to DTE Protocol return codes enabled  |
| <b>X</b>               | Level of return codes (see section on return codes)                |
| <b>Z</b>               | Initialise                                                         |
| <b>\G0</b>             | Returns OK for compatibility                                       |
| <b>\K5</b>             | Break management                                                   |
| <b>\N0</b>             | Normal Mode                                                        |
| <b>\N1</b>             | Direct Mode                                                        |
| <b>\N2</b>             | Error correction mode                                              |
| <b>\N3</b>             | Auto Reliable mode                                                 |
| <b>\N5</b>             |                                                                    |
| <b>\N7</b>             |                                                                    |
| <b>\N4</b>             | V42 mode                                                           |
| <b>\Q0</b>             | Disable flow control                                               |
| <b>\Q1</b>             | as &K4                                                             |
| <b>\Q3</b>             | as &K3                                                             |
| <b>\Tn (n=0 à 255)</b> | Delay time                                                         |
| <b>\V0</b>             | Deactivate connection speed return codes                           |
| <b>\V1</b>             | Activate connection speed return codes                             |
| <b>&amp;B0</b>         | Disable V32 auto retrain                                           |
| <b>&amp;B1</b>         | Enable V32 auto retrain                                            |
| <b>&amp;C0</b>         | CD always on                                                       |
| <b>&amp;C1</b>         | CD indicates carrier                                               |
| <b>&amp;D0</b>         | Ignore DTR                                                         |
| <b>&amp;D1</b>         | Drop of DTR forces Escape mode                                     |
| <b>&amp;D2</b>         | Drop of DTR drops the call                                         |
| <b>&amp;D3</b>         | Drop of DTR forces modem reset (equivalent to ATZ)                 |
| <b>&amp;F0</b>         | Select default profile 0                                           |
| <b>&amp;T0</b>         | Stop loop test                                                     |

| Command                  | Function                                |
|--------------------------|-----------------------------------------|
| <b>&amp;T1</b>           | Analogue loop test                      |
| <b>&amp;T3</b>           | Digital local loop test                 |
| <b>&amp;K0</b>           | Disable flow control                    |
| <b>&amp;K3</b>           | RTS/CTS flow control                    |
| <b>&amp;K4</b>           | XON/XOFF flow control                   |
| <b>&amp;Q0</b>           | Asynchronous mode                       |
| <b>&amp;Q5</b>           | as \N3                                  |
| <b>&amp;Q6</b>           | as \N0                                  |
| <b>&amp;Q8</b>           | MNP Error correction                    |
| <b>&amp;Q9</b>           | V42 or MNP Error correction             |
| <b>&amp;S0</b>           | DSR always on                           |
| <b>&amp;S1</b>           | DSR conforms to V25                     |
| <b>&amp;V0</b>           | Display current configuration           |
| <b>&amp;W0</b>           | Store the current configuration         |
| <b>&amp;Y0</b>           | Select default profile 0 on power on    |
| <b>%E0</b>               | Enable auto-retrain                     |
| <b>&amp;Zn (n=0 à 3)</b> | Store telephone number                  |
| <b>%E1</b>               | Disable auto-retrain                    |
| <b>%C0</b>               | Disable compression                     |
| <b>%C1</b>               | MNP5 and V42 bis Compression            |
| <b>%TCB</b>              | Reset blacklisted numbers table         |
| <b>% B</b>               | Display 'Delay' and blacklisted numbers |
| <b>* NC 5</b>            | France mode                             |
| <b>* NC 55</b>           | Europe mode                             |
| <b>* NC 6</b>            | Germany mode                            |
| <b>* NC 8</b>            | Italy mode                              |
| <b>* NC 25</b>           | US mode                                 |
| <b>* NC 33</b>           | Greece mode                             |



## S Registers

**Syntax :** AT<S register>=<Value>

**Example :** "ATS0=0 " to switch auto-answer off

| S REGISTERS |                                       | &F0<br>Factory |
|-------------|---------------------------------------|----------------|
| Register    | Function                              | Profile        |
| S0          | Number of rings on answer             | 3              |
| S1          | Ring counter                          | 0              |
| S2          | Escape                                | 43             |
| S3          | Carriage Return                       | 13             |
| S4          | Line Feed                             | 10             |
| S5          | Back Space                            | 8              |
| S6          | Wait for dial tone                    | 8              |
| S7          | Wait for carrier detect on connection | 60             |
| S8          | Pause length                          | 2              |
| S9          | Carrier duration time                 | 6              |
| S10         | Carrier lost duration time            | 14             |
| S11         | Length of DTMF number tone            | 0              |
| S12         | Guard time for the escape sequence    | 50             |
| S30         | Inactivity hang-up timeout            | 0              |
| S36         | Handshake negotiation                 | 7              |

| S REGISTERS |                                           | &F0<br>Factory |
|-------------|-------------------------------------------|----------------|
| Register    | Function                                  | Profile        |
| <b>S37</b>  | Maximum modulation selection              | 0              |
|             | Reserved                                  | 1              |
|             | 1200/75 bits/s                            | 2              |
|             | 300 bits/s                                | 3              |
|             | Reserved                                  | 4              |
|             | 1200 bits/s                               | 5              |
|             | 2400 bits/s                               | 6              |
|             | 4800 bits/s                               | 7              |
|             | 7200 bits/s                               | 8              |
|             | 9600 bits/s                               | 9              |
|             | 12000 bits/s                              | 10             |
|             | 14400 bits/s                              | 11             |
|             | 16800 bits/s                              | 12             |
|             | 19200 bits/s                              | 13             |
|             | 21600 bits/s                              | 14             |
|             | 24000 bits/s                              | 15             |
|             | 26400 bits/s                              | 16             |
|             | 28800 bits/s                              | 17             |
|             | 31200 bits/s                              | 18             |
|             | 33600 bits/s                              | 19             |
| <b>S48</b>  | LAPM Protocol                             | 7              |
| <b>S89</b>  | Sleep counter                             | 0              |
| <b>S90</b>  | Telephone handset status (off or on hook) | 0              |
| <b>S91</b>  | Transmission sensitivity                  | 10             |



## Response codes

| Numerical value | Literal value  | Value of ATX    |                 |
|-----------------|----------------|-----------------|-----------------|
|                 |                | X0-X5<br>and X7 | X1<br>and<br>X6 |
| 0               | OK             | ,               | ,               |
| 1               | CONNECT        | ,               | ,               |
| 2               | RING           | ,               | ,               |
| 3               | NO CARRIER     | ,               | ,               |
| 4               | ERROR          | ,               | ,               |
| 5               | CONNECT 1200   |                 | ,               |
| 6               | NO DIAL TONE   |                 | ,               |
| 7               | BUSY           |                 | ,               |
| 8               | NO ANSWER      |                 | ,               |
| 10              | CONNECT 2400   |                 | ,               |
| 11              | CONNECT 4800   |                 | ,               |
| 12              | CONNECT 9600   |                 | ,               |
| 13              | CONNECT 14400  |                 | ,               |
| 14              | CONNECT 19200  |                 | ,               |
| 24              | CONNECT 7200   |                 | ,               |
| 25              | CONNECT 12000  |                 | ,               |
| 86              | CONNECT 16800  |                 | ,               |
| 40              | CONNECT 300    |                 | ,               |
| 55              | CONNECT 21600  |                 | ,               |
| 56              | CONNECT 24000  |                 | ,               |
| 57              | CONNECT 26400  |                 | ,               |
| 58              | CONNECT 28800  |                 | ,               |
| 88              | DELAYED        |                 | ,               |
| 89              | BLACKLISTED    |                 | ,               |
| 90              | BLACKLIST FULL |                 | ,               |
| 60              | CONNECT 33600  |                 | ,               |
| 59              | CONNECT 31200  |                 | ,               |
| 28              | CONNECT 38400  |                 | ,               |
| 18              | CONNECT 57600  |                 | ,               |
| 87              | CONNECT 115200 |                 | ,               |

| Numerical value | Literal value | Value of ATX    |                 |
|-----------------|---------------|-----------------|-----------------|
|                 |               | X0-X5<br>and X7 | X1<br>and<br>X6 |
| <b>70</b>       | CONNECT 32000 |                 | ,               |
| <b>71</b>       | CONNECT 34000 |                 | ,               |
| <b>72</b>       | CONNECT 36000 |                 | ,               |
| <b>73</b>       | CONNECT 38000 |                 | ,               |
| <b>74</b>       | CONNECT 40000 |                 | ,               |
| <b>75</b>       | CONNECT 42000 |                 | ,               |
| <b>76</b>       | CONNECT 44000 |                 | ,               |
| <b>77</b>       | CONNECT 46000 |                 | ,               |
| <b>78</b>       | CONNECT 48000 |                 | ,               |
| <b>79</b>       | CONNECT 50000 |                 | ,               |
| <b>80</b>       | CONNECT 52000 |                 | ,               |
| <b>81</b>       | CONNECT 54000 |                 | ,               |
| <b>82</b>       | CONNECT 56000 |                 | ,               |
| <b>83</b>       | CONNECT 58000 |                 | ,               |
| <b>84</b>       | CONNECT 60000 |                 | ,               |



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## Internet Server\*

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### KORTEX on the Internet

Using the KORTEX web site you can post technical questions, obtain the latest information on a product and download software and Flash firmware updates.

◆ KORTEX Web site: <http://www.kortex.com/>





## Before contacting technical support

If you have a technical problem with your modem, please complete the form below as fully as possible prior to contacting technical support.

| Hardware                                                                                                 |                                                                                                                                    |          |
|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|----------|
| Required Information                                                                                     | Notes                                                                                                                              | Response |
| Date of purchase                                                                                         |                                                                                                                                    |          |
| Product reference no.                                                                                    | Indicated on the modem example :<br>BO000930                                                                                       |          |
| Firmware version                                                                                         | Send the HAYES command : AT/ in<br>Terminal mode, the response is of<br>the form: KORTX ADAPTIX 56K<br>Europe 110 780 00 V1.00 BOX |          |
| Format                                                                                                   | PC Card, External, ...                                                                                                             |          |
| Line type                                                                                                | Analogue, direct line, PBX, ISDN,<br>GSM                                                                                           |          |
| Prefix                                                                                                   | Yes/No                                                                                                                             |          |
| Type of computer                                                                                         | IBM Compatible PC, Mini-Computer,<br>Power PC (RISC)...                                                                            |          |
| Software                                                                                                 |                                                                                                                                    |          |
| Environment                                                                                              | Windows 3.X, Windows 95, DOS,<br>Windows NT 3.51, NT 4.0...                                                                        |          |
| Software version                                                                                         | See Help, About...                                                                                                                 |          |
| Winphone                                                                                                 | Version 2.0                                                                                                                        |          |
| FotoMac                                                                                                  | Version 1.9                                                                                                                        |          |
| Describe the problem you<br>have encountered as<br>accurately as possible and<br>note any error message. |                                                                                                                                    |          |

# MODEM USER GUIDE

## TECHNICAL SUPPORT :

TEL : 33 (0) 1 49 92 55 50

FAX : 33 (0) 1 49 92 55 48

E :MAIL ADDRESS : [support@kortex.com](mailto:support@kortex.com)

## SALES :

FAX : 33 (0) 1 49 92 55 77

E :MAIL ADDRESS : [sales@kortex.com](mailto:sales@kortex.com)

## WEB :

<http://www.kortex.com/>

## ADRESS :

139, 147 Avenue Paul Vaillant Couturier

93126 LA COURNEUVE CEDEX France

**Tél. : 33 (0) 1 49 92 55 55 - fax : 33 (0) 1 49 92 55 77**

**MN 120 360**

