

EUT : MR MODEM CARD

FCC ID : H52PT-3031

PURETEK INDUSTRIAL CO., LTD.

USER'S MANUAL

pan-European Approval

English

Equipment has been approved to (Council Decision 98/482/EC-CTR 21) for pan-European terminal connection to the Public Switched Telephone Network (PSTN). However, due to differences between the individual PSTNs provided in different countries, the approval does not, of itself, give an unconditional assurance of successful termination on every PSTN termination point.

In the event of problems, you should contact your equipment supplier in the first instance

German

Das Gerät wurde gemäß der Entscheidung 98/482/EG des Rates europaweit zur Anschaltung an einzelne Endeinrichtung an das öffentliche Fernsprechnetzzugelassen. Aufgrund der zwischen öffentlichen Fernsprechnetzen verschiedener Staaten bestehenden Unterschiede stellt diese Zulassung an sich jedoch keine unbedingte Gewähr für einen erfolgreichen Betrieb des Geräts an jedem Anschlusspunkt dar.

Im Betrieb Probleme auftretend, sollten Sie zunächst an ihren Fachhändler wenden.

Danish

Udstyret er i henhold til Rådets beslutning 98/482/EF EU-godkendt til at blive opkoblet på de offentlige telefonnet som enkeltforbundet terminal. På grund af forskelle mellem de offentlige telefonnet i de forskellige lande giver godkendelsen dog ikke i sig selv ubetinget garanti for, at udstyret kan fungere korrekt. På samtlige nettermineringspunkter på de offentlige telefonnet.

I tilfælde af problemer bør De i første omgang henvende Dem til leverandøren af udstyret.

Greek

Ο εξοπλισμός έχει εγκριθεί για πανευρωπαϊκή σήση μεμονωμένην τελεματική με το Δημόσιο Τηλεφωνικό Κτύο Μεταγωγής (PSTN), σύμφωνα με την απόφαση 98/482/ΕΚ του Συμβουλίου, ενώ, επειδή υπάρχουν διαφορές μεταξύ των επιμέρους PSTN που παρέχονται σε διαφορετικές χώρες, η γρήγορη διάθεση δεν εγγυάται απρόσκοπτη λειτουργία εξασφάλιση επιτυχούς λειτουργίας σε κάθε σημείο απλήξης του δικτύου PSTN.

Εάν ανακύψουν προβλήματα, θα πρέπει να απευθυνθείτε στον προμηθευτή του εξοπλισμού σας.

Spanish

Este equipo ha sido homologado de conformidad con la Decisión 98/482/CE del Consejo para la

Warning Notice to Australian Users

All telecommunications devices are required to be labelled with a Telecommunications Compliance Label, ensuring their compliance with ACA Technical Standards. To ensure continuing compliance to ACA Technical Standards, please ensure the following AT commands are maintained:

ATB0	(ITU/CCITT operation)
AT&G	(No Guard tone)
AT&P1	(33/36 pulse dial make/break ratio)
ATS0=0	(No answer or answer greater than 1 ring) or ATS0>1
ATS6=N	(Blind dial delay - acceptable range is 2.5 seconds)
ATS11=95	(DTMF period between 70-255ms)

A total of 3 calls attempts are allowed to a telephone number, with a minimum period between calls of 2 seconds; if the call doesn't connect after 3 attempts, 30 minutes must expire before automatic redialling may be initiated.

Failure to set the modem (and any associated communications software) to the above setting may result in the modem being non-compliant with ACA Technical Standards. Under these circumstance a permit would no longer be valid, with the user subject to significant penalties under the Telecommunications Act.

telekommunikationspunkt.

i bij problemen in eerste instantie contact op te nemen met de leverancier van het apparaat.

português

o equipamento foi aprovado para ligação pública de um único terminal à rede telefónica de comutação (RTPC) nos termos da Decisão 32/Ce. No entanto, devido às diferenças existentes entre as RTPC dos diversos países, a garantia não garante incondicionalmente, por si só, o funcionamento correcto em todos os pontos da rede da RTPC.

caso de problemas, deve entrar-se em contacto, primeiro lugar, com o fornecedor do equipamento.

dish

användningen har godkänts i enlighet med rådet 98/482/EG för all europeisk anslutning som är tillgänglig till det allmänt tillgängliga offentliga telefonnätet (PSTN). På grund av de skillnader som finns mellan telefonnäten i olika länder utgör godkännandet emellertid inte i sig självt en absolut garanti för att utrustningen kommer att fungera tillfredsställande vid varje anslutningspunkt i telefonnätet.

problem uppsår bör ni i första hand kontakta leverantören av utrustningen.

operate within the following limits for compliance with Telecom Specifications:

- Not more than a total of 10 call attempts shall be made to the same number for any single manual call initiation within a 30 minutes period.
 - There shall be at least 60 seconds between call attempts to the same number.
 - Automatic calls to different numbers shall be not less than 5 seconds apart.
- Immediately disconnect this equipment should it become physically damaged, and arrange for its disposal repair.
- The correct settings for use with this modem in New Zealand are as following:

ATB0	(CCITT operation)
AT&G2	(1800 Hz guard tone)
AT&P1	(Decadic dialling make-break ratio = 33% / 67%)
ATS0=0	(not auto answer)
ATS11=65	(DTMF dialling on/off duration = 65 ms)
ATX2	(dial tone detect, but not (U.S.A) can progress detect)

When used in the Auto Answer mode, the S0 register must be set with a value between 2 and 10. This ensures:

- A person calling your modem will hear a short burst of ringing before the modem answers. This confirms that the call has been successfully switched through the network.
- Caller identification information (which occurs between the first and second ring cadences) is not destroyed.
- This equipment does not fully meet Telecom's impedance requirements. Performance limitations may occur when used in conjunction with some parts of the network. Telecom will accept no responsibility should difficulties arise in such circumstances.
- It is recommended that this equipment be disconnected from the Telecom line during electrical storms.
- When relocating the equipment, always disconnect the Telecom line connection before the power connection, and reconnect the power first.

Please note that fault callouts caused by any of the above causes may incur a charge from Telecom.

- Modem manufacturer
- Model of modem
- FCC Registration Number
- Ringer Equivalence Number (REN)

FCC Part 15

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

connected to a telephone loop which is used as a device, to prevent overloading. The information on a loop may consist of any combination of devices subject only to the limitation that the total of the load numbers of devices does not exceed 100.

Compliance

Comply with the applicable sections of FCC Rules and Regulations, Parts 68 and 15, please read these instructions:

Do not connect your modem to a party line or to a coin-operated telephone.

If your modem should cause a problem on the telephone line, it should be disconnected from the line until it can be determined whether the modem or another device on the phone line caused the problem.

Only the manufacturer can make repairs to the modem. Other repair methods will void your warranty.

If you have an external modem, use a properly constructed shielded cable to connect it to your computer.

If your telephone company asks for the following information, please make it available:

If you experience trouble with this telephone
equipment, please contact your place of purchase
for information on obtaining service or repairs.

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Installation

Installing The Modem Hardware

1. Power down the computer.
2. Locate the AMR/MDC connector on the computer's motherboard, and carefully insert the 56MR AC-L modem board.
3. Connect the Wall jack on the modem board to an analog phone jack using an RJ-11 phone cable.
4. Power ON the computer.

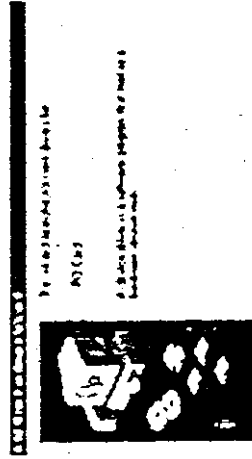
You have to enable the item of "AC97 modem" under the MAINBOARD's BIOS setting environment. So that the MR modem can be worked properly.

Installing Modem Software

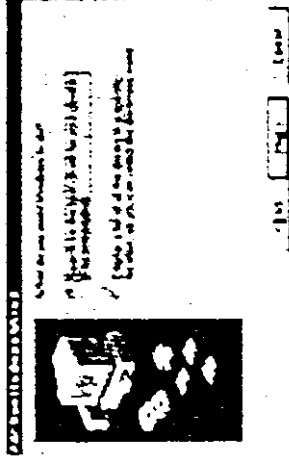
This description applies to Windows 98. Windows 95 may present a slightly different user interface.

A **New Hardware Found** dialog box will appear when the **56MR** detected and will prompt for the driver disk.

1. Insert the 56MR installation CD-ROM disk into the appropriate drive.

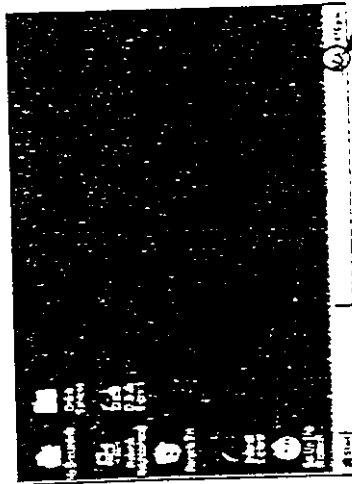


2. Select Search for the best driver for you device (Recommended) option.



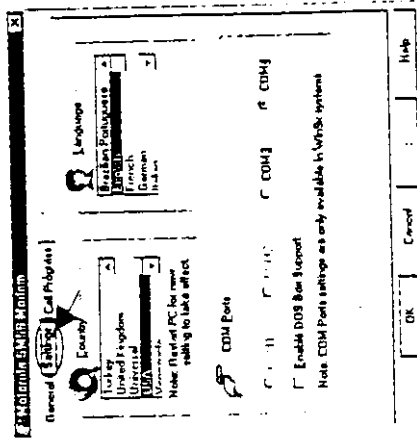
Country select

The 56MR AC-L also installs a utility on the Windows System Tray (right side of the Task Bar).



Click

2. This application includes real time modem status (dialing, negotiating, connect in data mode, connect rate, etc.), in addition to user selection for COM port, country and language, and enable/disable.



CTR21 stands for all the countries included in Pan-European Approval, i.e., Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Norway, Portugal, Spain, Switzerland, Holland, Sweden and UK.

Un-installing the 56MR AC-L Modem

To un-install the modem (all builds prior to Build 67 preview 12) :

1. Open the Windows Device Manager.
2. Select the 56MR AC-L Modem from under the Modem key.
3. Click the **Remove** button to remove the modem device.
4. Shut down the computer and remove the AMR/MDC card from the computer. The 56MR AC-L modem software remains on the hard disk. If you do not remove the modem card, the modem will auto-install the next time you start Windows.

To prevent the modem auto-installing the next time Windows is started (modem board installed), browse to **Windows\Inf\Other** and delete the 56MR AC-L INF files.

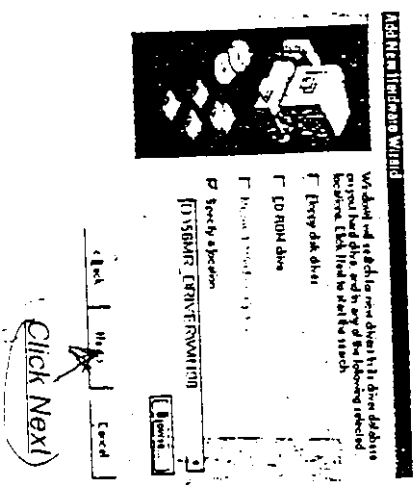
To un-install Build 67 preview 12 and later:

1. Open the Windows Control Panel
2. Double click the Add/Remove Programs icon.
3. Select 56MR AC-L Modem Un-install and click Add/Remove.

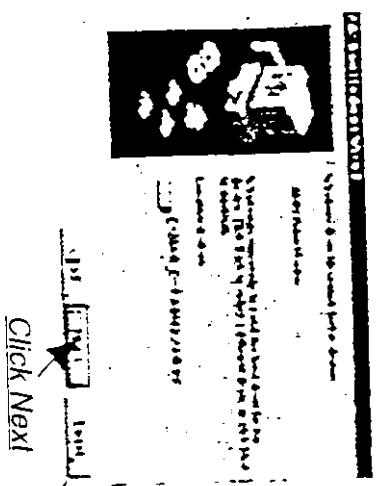
4. Shut down the computer and remove the AMR/MDC card from the computer. The 56MR AC-L modem software remains on the hard disk. The next time you start the computer with the 56MR AC-L modem board installed, the modem drivers will auto-install.

To prevent the modem auto-installing the next time Windows is started (modem board installed), browse to **Windows\Inf\Other** and delete the R56 AC-L INF files.

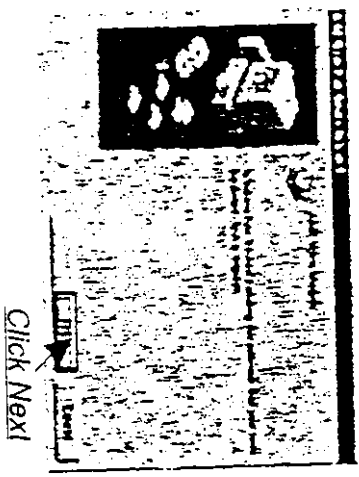
3. In the next dialog box, enter the disk drive of the installation disk or click the **Browse** button and point to the location of the driver installation files.



4. The following confirmation dialog will appear:



5. 56MR driver files will now be copied. During installation, the system may prompt you for Windows CD.
6. After files have been copied, a dialog box similar to the following will appear:



56MR is now installed on your system.

Introduction

56MR is 56kbps Modem Riser (MR).

Features

This modem supports the following communication standards. ITU-T is known as CCITT.

DATA

- ITU-T V.90 and K56flex Auto-Detect
- V.34, V.32bis, V.32, V.22bis, V.22, V.23 and V.21
- Bell 212A and Bell 103
- V.42LAPM and MNP 2-4 error correction
- V.42bis and MNP5 data compression

FAX

- ITU-T V.17, V.29, V.27ter and V.21 channel 2
- Group III Fax Send and Receive
- EIA/TIA 578 Class I(T.31)fax

System Requirements

- 233 MHz Pentium II Processor with 256K L2 cache.
- 266MHz Celeron Processor Ac-link V.21 Compatible Core Logic chipsets.

Package Checklist

- Windows 95/98 with 16 Mbytes RAM.
- Windows NT4.0/2000 with 32 Mbytes RAM.
- 8 Mbytes free hard disk Space.
- One AMR/MDC slot.
- One 56MR modem
- One piece of phone cable
- One CD(Modem Driver inside)
- The 56MR user's manual

- Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Part 68 Notice

This equipment complies with Part 68 of the FCC rules. On the base of this unit is a label that contains, among other information, the FCC registration number and Ringer Equivalence Number (REN) for this equipment. If requested, this information must be given to your telephone company.

The REN is used to determine the quantity of devices you may connect to your telephone line and still have all of those devices ring when your number is called. In most, but not all areas, the sum of the RENs of all devices should not exceed five (5.0). To be certain of the number of devices you may connect to your line, as determined by

the total RENs, you should call your local telephone company to determine the maximum RENs for your calling area.

If the telephone company suspects a problem with your telephone line is related to an add-on electronic device, such as your modem, they have the right to temporarily suspend your service. It is your responsibility to remove from the telephone line any malfunctioning electronic communications equipment to avoid damage to the telephone system.

If your equipment causes harm to the telephone network, the telephone company may discontinue your service temporarily. If possible, they will notify you in advance. But if advance notice is not practical, you will be notified as soon as possible. You will be informed of your right to file a complaint with the FCC. Your telephone company may make changes to its facilities, equipment, operations, or procedures that could affect the proper functioning of your equipment. If they do, you will be notified in advance to give you an opportunity to maintain uninterrupted telephone service.

The telephone company may ask that you disconnect this equipment from the network until the problem has been corrected or until you are sure that the equipment is not malfunctioning.

This equipment may not be used on coin service provided by the telephone company. Connection to party lines is subjected to state tariffs.

General Conditions

As required by PTC 100, please ensure that this office is advised of any changes to the specifications of these products which might affect compliance with the relevant PTC specifications. The grant of this Telepermit is specific to the above products with the marketing description as stated on the Telepermit label artwork. The Telepermit may not be assigned to other parties or other products without Telecom approval. A Telepermit artwork for each device is included from which you may prepare any number of Telepermit labels subject to the general instructions on formal size and colour quoted on the attached sheet. The Telepermit label must be displayed on the product at all times as proof to purchasers and service personnel that the product is able to be legitimately connected to the telecom network. The Telepermit label may also be shown on the packaging of the product and in the sales literature, as explained in PTC 100.

Canadian DOC Notice

The Canadian Department of Communication label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements. The Department does not guarantee the equipment will work to the user satisfaction.

Before installing the equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunication company. The equipment must also be installed using an acceptable method of connection. In some cases, the company inside wiring associated with a single line individual service may be extended by means of a certified connector assembly (telephone extension cord). The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations. Repair to certified equipment should be made by an authorized Canadian maintenance facility designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment. Users should ensure for their own protection that the electrical ground connections to the power utility, telephone lines, and internal metallic water pipe systems, if present, are connected together. This precaution may be particularly important in rural areas.



Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

The Load Number (LN) assigned to each terminal device denotes the percentage of the total load to

The modem card must only be used in a data terminal equipment (DTE) e.g. computer, that has a screw down cover/lid. As unsafe voltages (TNV) exist on the modem card, disconnect the modem card from the telephone line while the cover (lid) of the DTE (computer) is removed.



Caution

1. While installing the internal modem card, please ensure there is at least 2mm of air gap between the PCB card and other components in the DTE.
2. For Safety reasons, only connect a Telephone marked with a Telecommunications Compliance Label to the phone port.
3. For Safety reasons, only connect equipment with a Telecommunications Compliance Label. This includes customer equipment previously labelled, permitted or certified.
4. To ensure continuing compliance with ACA Technical Standards, a Kitagawa SFC-4 ferrite or equivalent must be fitted to the cable of any external microphone and / or speaker connected to the external modem.

Notice for New Zealand Users

- The grant of a Telepermit for a device in no way indicates Telecom acceptance of responsibility for the correct operation of that device under all operating conditions. In particular the higher speeds at which this modem is capable of operating cannot always be expected on network designed to delivery voice telephony be customers. Failure to operate should not be reported as a fault to Telecom.
- In addition to satisfactory line conditions a modem can only work properly if:
It is compatible with the modem at the other end of the call and
The application using the modem is compatible with the application at the other end of the call. E.g. accessing the Internet requires suitable software in addition to a modem.
- This equipment shall not be used in any manner which could constitute a nuisance to other Telecom customers.
- Some parameters required for compliance with Telecom's PTC Specifications are dependent on the equipment (PC) associated with this modem. The associated equipment shall be set to

conexión paneuropea de un terminal simple a la red telefónica pública conmutada (RTPC). No obstante, a la vista de las diferencias que existen entre las RTPC que se ofrecen en diferentes países, la homologación no constituye por sí sola una garantía incondicional de funcionamiento satisfactorio en todos los puntos de terminación de la red de una RTPC.

En caso de surgir algún problema, procede ponerse en contacto en primer lugar con el proveedor del equipo.

Finnish

Tämä laite on hyväksytty neuvoston päätöksen 98/482/EY mukaisesti liitettäväksi yksittäisenä laitteena yleiseen kytkentäiseen puhelinverkkoon (PSTN) EU:n jäsenvaltioissa. Eri maiden yleisten kytkentäisten puhelinverkkojen välillä on kuitenkin eroja, joten hyväksyntä ei sellaisenaan takaa häiriötöntä toimintaa kaikkien yleisten kytkentäisten puhelinverkkojen liittytävistessä.

Ongelmien ilmeessä otalkaa viipymättä yhteyttä laitteiden toimittajaan.

French

Cet équipement a reçu l'agrément, conformément à la décision 482/98/CE du Conseil, concernant la connexion paneuropéenne de terminal unique aux réseaux téléphoniques publics commutés (RTPC).

Toutefois, comme il existe des différences d'un pays à l'autre entre les RTPC, l'agrément en soi ne constitue pas une garantie absolue de fonctionnement optimal à chaque point de terminaison du réseau RTPC.

En cas de problème, vous devez contacter en premier lieu votre fournisseur.

Italian

La presente apparecchiatura terminale è stata approvata in conformità della decisione 98/482/CE del Consiglio per la connessione paneuropea come terminale singolo ad una rete analogica PSTN. A causa delle differenze tra le reti dei differenti paesi, l'approvazione non garantisce però di per sé il funzionamento corretto in tutti i punti di terminazione di rete PSTN.

In caso di problemi contattare in primo luogo il fornitore del prodotto.

Dutch

Dit apparaat is goedgekeurd volgens Beschikking van de Raad 98/482/EG voor pan-Europese aansluiting van enkelvoudige eindapparatuur op het openbare geschakelde telefoonnetwerk (PSTN). Gezien de verschillen tussen de individuele PSTN's in de verschillende landen, biedt deze goedkeuring op zichzelf geen onvoorwaardelijke garantie voor een succesvolle werking op elk PSTN.