

Viking 33.6K Modem/ Ethernet Combo Card

INSTALLATION GUIDE



Manual No.1005216 • Release 11/97,Rev.A
Part Number:CB33610TP

SPEED POWER PERFORMANCE

Key Features of the Viking 33.6K Modem/Ethernet Combo Card:

- 10BaseTEthernet PC Card.
- All internal Data+Fax V.34 33.6Kbps modem.
- Simultaneous network and modem operations.
- Power conservation modes which reduce power consumption when the network or modem features are not in use.

Ethernet Industry Standards:

- 10BaseTEthernet 802.3.
- Data transfer via programmed I/O or memory mapped I/O.
- Category 5 cable with RJ-45 connector.

Modem - Data Mode Industry and ITU-TStandards:

- 16550 COMport interface.
- DTE speeds to 230,400 bps.
- Hayes ATcommand set.
- ITU-T V.34 Annex 12 (33,600), ITU-T V.34, V.32bis, V.32, V.22, V.21, and Bell 212Aand 103 operation.
- V.42bis LAPM, MNP2-4 and MNP10 error correction protocol.
- MNP2,3 and 4 error correction protocol.
- V.42bis and MNP5 data compression.

Modem - Fax Mode Industry Standards:

- Fax mode supports Class 1 and Class 2 ATfax commands for fax communications. To use fax mode, you must use a fax communications software package.
- Fax rates up to 14,400bps, ITU-T V.17, V.29, V.27ter and V.21 channel 2.

Installing the Viking Combo Card with Windows 95:

1. The Viking Combo Card can be inserted into a computer whether it is ON or OFF. The following are general instructions that apply to most systems. Please refer to your system's "Owner's Guide" for any additional instructions on installing PC Cards. Insert the Viking Combo Card face up into a Type II PCMCIA slot on your system until it is firmly seated.

Note: the Viking Combo Card is keyed to go into the slot one way. If you feel resistance before the card is fully inserted, remove the card, and reinstall it face up.



2. You will be prompted by a "New Hardware Found" window. Select "Driver from disk provided by hardware manufacturer," and click "OK."
3. The "Install from Drive" window will appear. Insert the "Viking Combo Ethernet/Modem Card Installation Disk." Select the drive and the file by typing `a:\` and click "OK."
4. The "New Hardware Found" window will open. Select the drive and the file by typing `a:` and click "OK." The necessary modem software is installed.
5. The "New Hardware Found" window re-opens. Select the drive and file by typing `a:\`. Then click "OK." The necessary network software is installed. When the software installation is complete, you will be prompted to restart your computer. Click "Yes" to restart your system.

The software installation is now complete. Please proceed to section, "Modem Operations" in the manual.

Installing the Viking Combo Card with OSR2 Windows 95:

1. The Viking Combo Card can be inserted into a computer whether it is ON or OFF. The following are general instructions that apply to most systems. Please refer to your system's "Owner's Guide" for any additional instructions on installing PC Cards. Insert the Viking Combo Card face up into a Type II PCMCIA slot on your system until it is firmly seated.

Note: the Viking Combo Card is keyed to go into the slot one way. If you feel resistance before the card is fully inserted, remove the card, and reinstall it face up.

2. When the card is installed into your computer, you will be prompted by a "New Hardware Found" window. Then the "Update Device Driver Wizard" window appears. Click "Next." The "Update Device Driver" searches for a driver.

3. Click "Other Locations." The "Select Other Location" window opens. Select the drive and file by typing `a:\`. Click "OK."

4. Click "Finished."

5. With the "Viking Combo Ethernet/Modem Card Installation Disk" still in your machine, the "Copying Files..." window opens. Click "OK." The "Update Device Driver Wizard" window re-appears. Then Click "Next."

6. Click "Other Location." The "Select Other Location" window opens. Select the drive and the file by typing `a:\`. Then click "OK." The "Update Device Wizard" window re-appears.

7. Click "Finished." With the "Viking Combo Ethernet/Modem Card Installation Disk" still in your machine, the "Copying Files..." window opens. Click "OK." The "Update Device Driver Wizard" window re-appears. Then Click "Next."

8. Click "Other Location." The "Select Other Location" window opens. Select the drive and the file by typing `a:\`. Then click "OK." The "Update Device Driver Wizard" window re-appears.

9. Click "Finished." With the "Viking Combo Ethernet/Modem Card Installation Disk" still in your machine, the "Copying Files..." window opens. Click "OK."

The software installation is now complete. Please proceed to section, "Modem Operations" in the manual.

Installing the Viking Combo Card with Windows NT:

1. The Viking Combo Card can be inserted into a computer whether it is ON or OFF. The following are general instructions that apply to most systems. Please refer to your system's "Owner's Guide" for any additional instructions on installing PC Cards. Insert the Viking Combo Card face up into a Type II PCMCIA slot on your system until it is firmly seated. For Windows NT, both the Modem and the Ethernet functions must be configured.

Note: the Viking Combo Card is keyed to go into the slot one way. If you feel resistance before the card is fully inserted, remove the card, and reinstall it face up.

2. Select "Setting" from the "Start" menu. Open the "Control Panels." Double-click the "Network Icon." The "Network Control Panel" opens.

Note: If you do not have a network installed on your computer, a window will appear which prompts you to install a network. Follow the screen prompts and then continue with step 3.



3. Click "Adapters" tab. Click "Add..." The "Select Network Adapter" window opens.
 4. Select "Have Disk" from the location box. The "Insert Disk" window opens. Select the drive and file by typing `a:\winnt`, insert the "Viking 33.6K Modem/Ethernet Combo Card Installation Disk," and click "OK." The "Select OEM Option" window opens.
 5. Select "Viking Ethernet/33.6K Modem," and click "OK." The necessary software is installed. Once the software is installed, the "Viking Ethernet/Modem PC Card Setup" window opens.
 6. Default settings will appear. Click "Continue."
 7. Reboot your system. Go to the modem icon in the "Control Panel" and click "Add." Windows NT will search the installed Comports for the Viking Modem. Select "Change" and then select "Have Disk." Type `a:\winnt`. Click "OK" and then click "Next." A message appears "Modem has been successfully installed." Then click "Finish." The Ethernet functions are configured and the modem is recognized by the system. The modem must now be configured for use.
 8. Please consult your Network Administrator for detailed information on protocols and services used in your network environment.
- The software installation is now complete. Please proceed to section, "Modem Operations" in the manual.

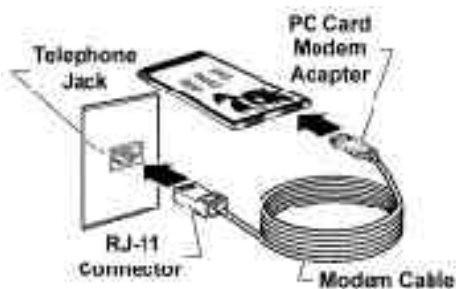
Installing the Viking Combo Card with DOS:

1. DOS drivers have been supplied on the "Viking Combo Ethernet/Modem Card Installation Disk."

Modem Operations:

Connecting the Viking Combo Card to an Analog Telephone Jack:

1. Plug the PC Card modem adapter into the Viking Type II Combo Card.
Note: The PC Card modem connector is keyed to go in one way only. If you feel resistance before the connector is fully inserted, remove the connector, turn it over, and re-insert it.
2. Plug the RJ-11 connector into the telephone jack. If you wish to have both the telephone and the Viking Combo Card connected to a single telephone jack, a telephone Y-connector (not included) is required.



Configuring Your Communications Software:

Refer to the documentation that was supplied with your communication software for any information regarding modem setup.

If your communications software does not support user-friendly device names and cannot support COM port settings, you can determine the required I/O Port and IRQ values as follows:

1. From the "Start Menu Settings" folder, invoke "Control Panel."
2. Select "Modems," and in the "Modems" window, select the "Diagnostics Properties" tab.
3. Besides the name Viking 33.6K Modem is the COM port association.
4. Configure your communications software for this COM port setting. Once the Viking 33.6K Modem is connected to the telephone network, it is ready for use.

Using your Viking 33.6K Modem:

To use your Viking 33.6K Modem for data or fax operations with a land-line connection ensure that all required dialed digits are configured in your communication software. Then use your communications software to perform modem operations.

Ethernet Operations:

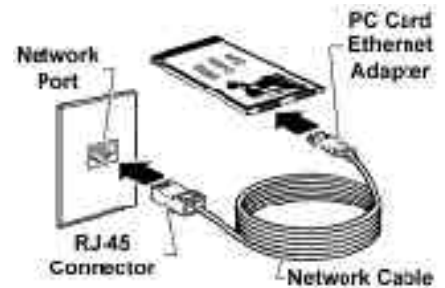
The Viking 33.6K Modem/Ethernet Combo Card can connect to an Ethernet network via a direct-connect Ethernet cable. A direct-connect Ethernet cable connection can be used with 10BaseT cabling.

Connecting to a 10BaseT Twisted Pair Network:

1. To connect the Viking 33.6K Modem/Ethernet Combo Card to a 10BaseT network connection plug the Ethernet cable into the Viking Combo Card socket labeled "Ethernet."

Note: The PC Card connector is keyed to go in one way only. If you feel resistance before the PC Card Ethernet connector is fully inserted, remove the connector, turn it over, and re-insert it.

Plug the RJ-45 connector into the network port.



Additional Information:

The following information can be found on a file called "combo-at.pdf" This file can be found in the "Docs" directory on the "Viking Combo Ethernet/Modem Card Installation Disk."

- AT Command Summary
- Modem S Registers
- Default Register Settings
- Modem Register Summary
- Facsimile Commands

Driver updates and other additional information can also be found at our web site:

www.vikingcomponents.com

Notices, Conditions and Regulations:

FCC Notice

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 against harmful interference in a residential installation. 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:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the 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 or television technician for help.

Modifications

The FCC requires the user be notified that any changes or modifications made to this device that are not expressly approved by Ositech Communications Inc. may void the user's authority to operate this equipment.

Operating Conditions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesired operation.

Canadian Electromagnetic Compatibility Advisory

This Class B digital apparatus meets all requirements of the Canadian Interference Causing Equipment Regulations.

Conseil sur la compatibilité des Électromagnétiques, pour le Canada

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Industry U.S. Warnings

This equipment complies with Part 68 of the Federal Communications Commission (FCC) rules for the United States.

A label is located on the underside of the base unit containing the FCC registration number and Ringer Equivalent Number (REN). You must upon request, provide the following information to your local telephone company: REN 0.6B.

Should you experience trouble with this telephone equipment, please contact:
Viking Components, Inc.

30200 Avenida de las Banderas, Rancho Santa Margarita, California 92688

The REN is useful to determine the quantity of devices which may be connect to the telephone line. Excessive RENs on the telephone line may result in the devices not ringing in response to an incoming call. In most, but not all areas, the sum of the RENs should not exceed five (5.0). To be certain of the number of devices that may be connect to a line, as determined by the total RENs, contact your local telephone company.

If trouble is experienced with this equipment Viking 33.6K Modem/Ethernet Combo Card for repair or warranty information, please contact Viking Components 24-hour Customer Support 1-800-845-8777. If the equipment is causing harm to the telephone network, the telephone company may request that you disconnect the equipment until the problem is solved.

For repair/warranty information. The telephone company may ask you to disconnect this equipment from the line network until the problem has been corrected.

This equipment cannot be used on public coin phone service provided by the telephone company. Connection to party line service is subject to state tariffs.

Your telephone company may discontinue your service if your equipment causes harm to the telephone network. They will notify you in advance of disconnection, if possible. During notification, you will be informed of your right to file a complaint to the FCC.

Occasionally, your telephone company may make changes in its facilities, equipment, operation, or procedures that could affect the operation of your equipment. If so, you will be given advance notice of the change to give you an opportunity to maintain uninterrupted service.

The Telephone Consumer Protection Act of 1991 makes it unlawful for any person to use a computer or other electronic device, including fax machines, to send message unless such message clearly contains in a margin at the top or bottom of each transmitted page or the first page of the transmission, the date and time it is sent and an identification of the business or other entity, or other individual sending the message and the telephone number of the sending machine or such business, other entity or individual. (The telephone number provided may not be a 900 number or any other number for which charges exceed local or long distance transmission charges.

Industry Canada Warnings

Note: The Industry Canada label identifies certified equipment. This certification means that the equipment meets certain telecommunications network protective, operational, and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The Department does not guarantee the equipment will operate to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The customer should be aware that compliance with the above conditions may not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative 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.

User should ensure for their own protection that the electrical ground connections of the power utility, telephone lines and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas. **Caution:** Users should not attempt to make such connections themselves, but should contact the appropriate electric inspection authority, or electrician, as appropriate.

Notice: The Ringer Equivalence Number (REN) assigned to each terminal device provides an indication of the maximum number of terminals allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the Ringer Equivalence Number of all the devices does not exceed 5.

"Limited Lifetime" which fail solely because their estimated life has expired. No warranty is made with respect to customer products produced to original purchaser specifications except as specifically stated in writing by Viking.

All shipping costs shall be the responsibility of the purchaser.

Except as provided herein, there are no express or implied warranties of merchantability or fitness for a particular purpose. Under no circumstances will Viking Components be liable in any way to any purchaser for any damages, including but not limited to lost revenue, lost wage, or any other incidental or consequential damages arising out of the use of or inability to use this product. **Viking reserves the right to make modifications in both hardware and software without priornotifications.**

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If you have any questions or comments call the Viking Components CustomerSupport Staff at (800) 845-8777.

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5 YEAR WARRANTY & DISCLAIMERS

All Viking Components products have been thoroughly tested free of defects in material and workmanship. If any malfunction should occur while used in its recommended environment, Viking, at its option, will repair or replace this product at no charge, provided the product or any part thereof has not been abused, misused, neglected, replaced, repaired or modified. Viking shall make the final determination as to the existence and cause of any defect. Viking will not repair or replace products designated as having a