

Omni 37xx

Installation Guide



VERIX
OPERATING
ENVIRONMENT



SOFTPAY
E-PAYMENT
APPLICATION



VERIX
DEVELOPER
TOOLKIT
DEVELOPMENT
TOOLS



VERISHIELD
SECURITY
ARCHITECTURE



OMNI 37XX
HAND-OVER-COUNTER
MULTI-APPLICATION
APPLIANCES



OMNI 33XX
MULTI-APPLICATION
APPLIANCES



VERIX
MULTI-APP
CONDUCTOR
MULTIPLE APPLICATION
MANAGEMENT
SYSTEM



VERICENTRE
APPLIANCE
MANAGEMENT
SUITE

Omni 37xx Installation Guide
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This guide is your primary source of information for setting up and installing the Omni 37xx family of terminals.

Audience

This guide is useful for anyone installing and configuring the Omni 37xx terminal. Basic description of the terminal features are also provided.

Organization

This guide is organized as follows:

Chapter 1, Terminal Overview. Provides an overview of the Omni 37xx family of terminals.

Chapter 2, Terminal Setup. Explains how to set up and install the Omni 37xx terminal. It tells you how to select a location, establish power and telephone line connections, and how to configure optional peripheral devices.

Chapter 3 Specifications. Discusses power requirements and dimensions of the Omni 37xx terminal.

Chapter 4, Maintenance. Explains how to maintain your Omni 37xx terminal.

Chapter 5, VeriFone Service and Support. Provides information on contacting your local VeriFone representative or service provider. You will also find information on how to order accessories or documentation from the VeriFone.

Chapter 6, Troubleshooting Guidelines. Provides troubleshooting guidelines, should you encounter a problem in terminal installation and configuration.

Related Documentation

To learn more about Omni 37xx, refer the following set of documents:

- *Omni 3750 Quick Installation Guide*, VeriFone Part Number (VPN) - 22398, Rev. C
- *Omni 37xx Certifications and Regulations*, VPN - 22429, Rev. B
- *Verix Programmer's Manual*, VPN - 19733, Rev. E




Conventions Used in This Guide

Various conventions are used to help you quickly identify special formatting. The following table describes these conventions and provides examples of their use.

Table 1 Document Conventions

Convention	Meaning	Example
Blue	Text in blue indicates terms that are cross referenced.	See Conventions Used in This Guide .
Italics	Italic typeface indicates book titles or emphasis.	You <i>must</i> install a roll of thermal-sensitive paper in the printer.

Table 1 Document Conventions (continued)

Convention	Meaning	Example
<p>ScreenText - PRE</p>	<p>ScreenText format is used while specifying onscreen text, such as text that you would enter at a command prompt, or to provide an URL.</p>	<p><code>http://www.verifone.com</code></p>
<p>NOTE</p> 	<p>The pencil icon is used to highlight important information.</p>	<p>RS232-type devices do not work with the PIN Pad port.</p>
<p>CAUTION</p> 	<p>The caution symbol indicates hardware or software failure, or loss of data.</p>	<p>The terminal is not waterproof or dustproof, and is intended for indoor use only.</p>
<p>WARNING</p> 	<p>The lightning symbol is used as a warning when bodily injury might occur.</p>	<p>Due to risk of shock do not use the terminal near water.</p>



Terminal Overview

This chapter provides a brief description of VeriFone's Omni 37xx family of terminals. The Omni 37xx family includes Omni 3700, Omni 3740, and Omni 3750 terminals.

Omni 37xx

The Omni 37xx terminal series represents the shape of things to come in e-payment. The bold ergonomic design is sleek and stylish, offering countertop power and 32-bit performance in an integrated terminal that can be handed to the consumer for input. In addition, the Omni 37xx family serves as the entry point to VeriFone's acclaimed multi-application platform—with the capability to securely support payment and value-added applications on a single terminal.

NOTE



VeriFone ships variants of the Omni 37xx terminal for different markets. Your terminal may have a different configuration. The following devices may or may not be present: a smart card reader, a printer, and/or zero, two, or four SAM cardholders.

Features At a Glance



- Delivers **power** and **usability** in a **convenient** “hand-over” design.
- Securely supports and runs **payment** and **value-added applications**.
- **Multi-application** operating environment.
- Offers **unsurpassed performance** on **EMV** smartcard transactions.
- **32-bit processing** and **multi-tasking** capabilities.
- **Security** architecture meets specifications for PIN-entry devices (PED) and sophisticated **file authentication**.

The Omni 37xx provides the right combination of features and functions at the right price. This includes a vertical magnetic-stripe card reader, smart card reader, integrated PINpad, and a quiet, fast, integrated thermal printer.

Features and Benefits

Exceptional Ease Of Use

- Bold design is sleek, stylish, and lightweight for conveniently handing terminal to consumer for PIN entry or other input.
- Intuitive ATM-style interface, large 8 line x 21 character backlit display with split screen capabilities, large keys, and extra-size menu prompts simplify training and reduce calls to the Help Desk.
- Integrated high-speed thermal printer simplifies paper loading and virtually eliminates paper jams.
- Triple-track, high-coercivity card reader handles most magnetic stripe cards.

Countertop Performance in a “Hand-Over” Design

- 32-bit processing and multi-tasking capabilities make short work of payment, payment-related, and value-added applications.
- Exceptional graphics-handling capabilities of display and printer quickly render logos, graphical fonts, and character-based languages.
- VeriCenter Appliance Management Suite employs advanced file compression to streamline downloads of application software simultaneously to hundreds of terminals.
- Integrated PINpad offers added convenience to handle PIN-based applications.
- Ensures uncompromising reliability from VeriFone, the worldwide leader in e-payment.

True Multi-Application Capability

- 1.5 MB of memory and Verix’s dynamic memory allocation support two or three typical-sized applications on a single terminal.
- Primary smart card reader and two Security Access Modules (SAMs) safeguard sensitive financial data and support multiple smart card schemes.
- Omni 37xx family of terminals and SoftPay EMV software have received EMV Level 1 and Level 2 Type Approval for smart card solutions. The Verix EMV Library provides efficient development of other EMV-compliant applications.
- VeriShield security architecture meets published specifications for PIN-entry devices (PED) and provides sophisticated file authentication, which prevents execution of unauthorized software on Omni 37xx terminals.



CHAPTER 2

Terminal Setup

This chapter describes terminal setup procedure. You will learn how to:

- Select a location and protect the terminal from adverse [Environmental Factors](#). See [Select Terminal Location](#).
- Unpack the shipping carton. See [Unpack the Shipping Carton](#).
- Examine terminal features. See [Examine Terminal Features](#).
- Establish telephone line connections. See [Establish Telephone Line Connections](#).
- Install paper roll in the printer. See [Install Paper Roll](#).
- Configure optional peripheral devices. See [Connect Optional Device\(s\)](#).
- Establish power connections. See [Connect Terminal Power Pack](#).
- Route cables using wire clips. See [Routing The Cables Using Wire Clips](#).
- Conduct smart card, or credit/debit transactions. See [Smart Card Transaction and Magnetic Card Reader Use](#).

Select Terminal Location

Follow the guidelines described in the following section while selecting a location for your terminal.

Ease of Use

- Select a location convenient for both merchant and cardholder.
- Select a flat support surface, such as a countertop or table.
- Select a location near a power outlet and a telephone/modem line connection. For safety, do not string the power cable in a walkway or place across a walkway on the floor.

Environmental Factors

- Do not use the terminal where there is high heat, dust, humidity, moisture, or caustic chemicals or oils.
- Keep the terminal away from direct sunlight and anything that radiates heat, such as a stove or a motor.
- Do not use the terminal outdoors.



The terminal is not waterproof or dustproof, and is intended for indoor use only. Any damage to the unit from exposure to rain or dust may void any warranty.

Electrical Considerations

- Avoid using this product during electrical storms.
- Avoid locations near electrical appliances or other devices that cause excessive voltage fluctuations or emit electrical noise (for example, air conditioners, electric motors, neon signs, high-frequency or magnetic security devices, or computer equipment).
- Do not use the terminal near water or in moist conditions.

WARNING



Due to risk of shock or terminal damage, do not use the terminal near water, including a bathtub, wash bowl, kitchen sink or laundry tub, in a wet basement, or near a swimming pool.

Unpack the Shipping Carton

Open the shipping carton and carefully inspect its contents for possible tampering or shipping damage. The Omni 37xx is a secure product and any tampering may cause the terminal to cease to function the way it should.

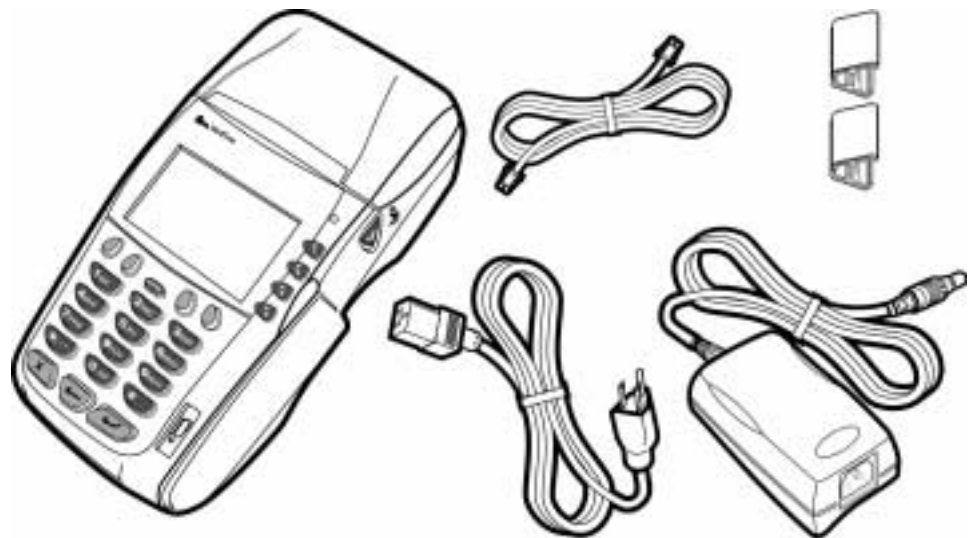


Figure 1 Omni 37xx Product Components

- 1 Remove and inspect the following items (see [Figure 1](#)):
 - Omni 37xx terminal
 - Power pack
 - Telephone line cord
 - Wire clips
- 2 Remove all plastic wrapping from the terminal and other components.
- 3 Remove the clear protective film from the LCD screen.

WARNING



Do not use a terminal that has been damaged or tampered.

The Omni 37xx terminal comes equipped with tamper-evident labels. If a label or component appears damaged, please notify the shipping company and your VeriFone representative or service provider immediately.

Examine Terminal Features

- 4 Save the shipping carton and packing material for future repacking or moving the terminal.

Before you continue the installation process notice the following features of the Omni 37xx (see Figure 2):

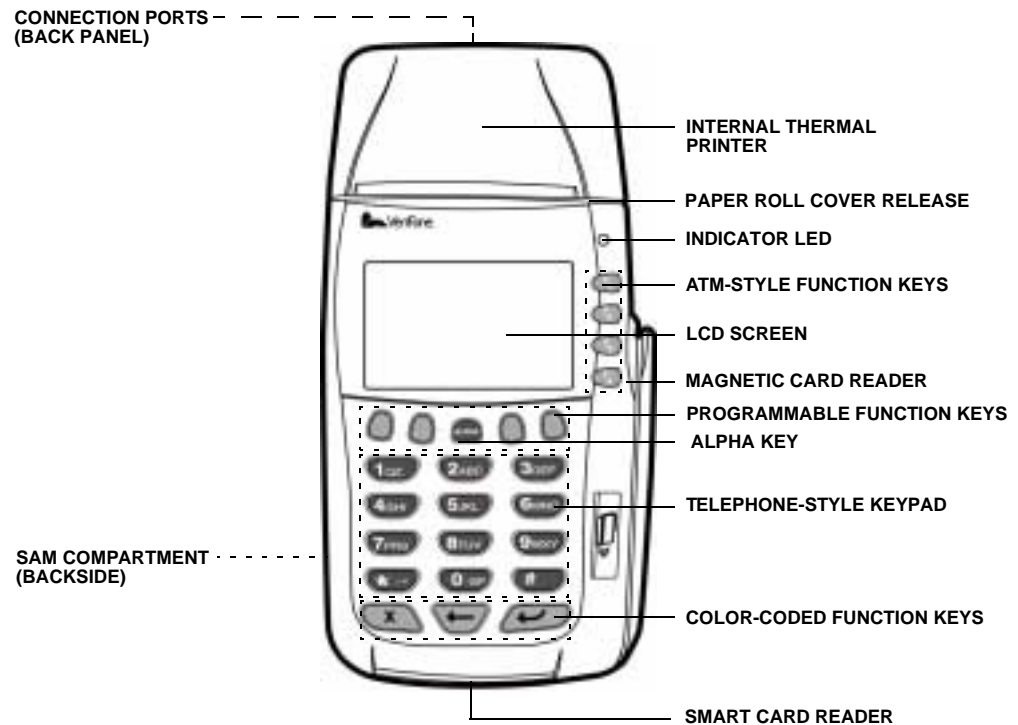


Figure 2 Omni 37xx Terminal Features (Front Panel)

Front Panel

The front panel includes the following features:

- An **LCD screen**.
- Four types of keys:
 - A 12-key, **telephone-style** keypad.
 - Four **ATM-style** function keys, labeled F1 to F4, to the right of the LCD screen.
 - Four unlabeled, **programmable** function (PF) keys above the keypad.
 - Three color-coded function keys below the keypad (icons at right, left-to-right: CANCEL/OFF, BACKSPACE, ENTER/ON).
- An **ALPHA** key centered at the top of the keypad.
- A **magnetic card reader**, built into the right side. The icon at right shows the proper swipe direction, with the stripe facing inward, toward the keypad.
- A green/red **indicator** LED (Light Emitting Diode) with the following states:
 - Steady green light indicates power is ON.



- Slow flashing green (roughly one flash per second) indicates no paper in the printer.
- Fast flashing green (roughly two flashes per second) indicates a printer mechanism error.
- Flashing red indicates the terminal is downloading printer-related files.
- An internal thermal **printer**.
- A **smart card reader**, built into the terminal's front side. The icon shown at right indicates the proper card position and insertion direction.
- A **SAM (security access module) compartment**, built into the bottom side of the terminal. The Omni 37xx terminal contains micromodule-size SAM (MSAM) cardholders for supporting multiple stored-value card programs or other merchant card requirements.



NOTE



VeriFone ships variants of the Omni 37xx terminal for different markets. Your terminal may have a different configuration. The following devices may or may not be present: a smart card reader, a printer; and/or zero, two, or four SAM cardholders. However, the basic processes described in this guide remains the same, regardless of the terminal configuration.

Back Panel

If you turn the terminal around and view it from just under the hinges of the paper roll cover, you will notice different ports that connect the Omni 37xx to a communications line, optional devices, and the power supply (see [Figure 3](#)):

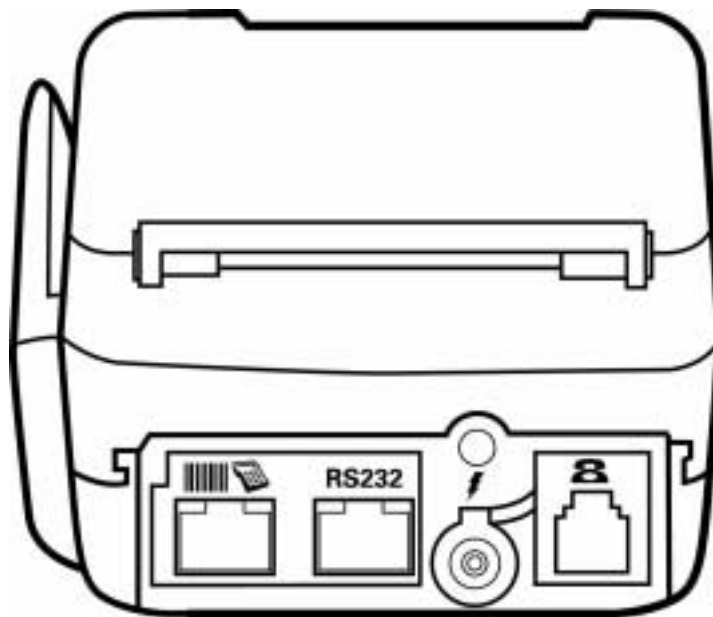





Figure 3 Connection Ports (Back Panel)

- **Communications Port** can be identified by a telephone-shaped icon, shown at right. Use this port to connect a telephone to the Omni 37xx.



- Two **RJ45-type modular jacks** (serial ports) are for attaching optional peripheral devices.
 - **RS232** port, icon at right, connects a VeriFone CR 600 check reader or other peripheral device. **RS232**
 - Bar Code and PIN Pad port, icons at right, connects a PIN pad, smart card reader, or bar code wand. 

- Power connection port that uses a round port with a lock notch for securely connecting the terminal to a power source. It is identified by the electrical power icon at right. 

WARNING



Do not connect the terminal to the power supply until all the peripherals are attached.

Establish Telephone Line Connections

Connect the telephone cord (VeriFone Part Number 00124-17) to the communication port on the terminal then route it directly to a telephone wall jack (see [Figure 4](#)). This is a direct connection, and the line is dedicated to the terminal.

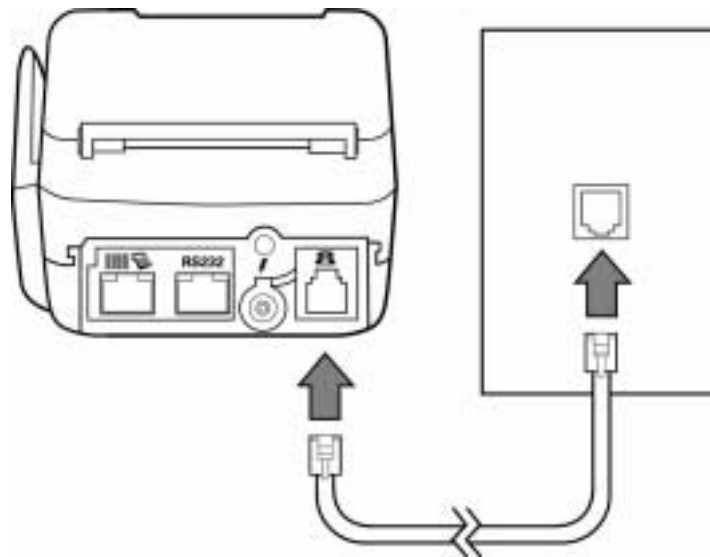


Figure 4 Direct Telephone Connection

Install Paper Roll

A fast, quiet thermal printer is built in to the Omni 37xx. There are no additional printer cables to connect because the printer receives power directly from the terminal.

Before you can process transactions that require a receipt or record, you *must* install a roll of thermal-sensitive paper in the printer. This procedure is described in [To Install a Paper Roll](#) section.

The internal thermal printer uses a roll of single-ply, thermal-sensitive paper 58 millimeters (2.25 inches) wide and about 25-33 meters (82-108 feet) long.

WARNING



Poor-quality paper jams the printer. To order high-quality VeriFone paper, refer the [Accessories and Documentation](#) section.

CAUTION



Store thermal paper in a dry, dark area. Handle thermal paper carefully: impact, friction, temperature, humidity, and oil affect the color and storage characteristics of the paper.

Never load a roll of paper with folds, wrinkles, tears, or holes at the edges or in the printing area.

To Install a Paper Roll

- 1 Turn on the terminal. The green LED indicator will blink on and off, indicating that the printer needs paper.
- 2 Press the button on the side of the terminal to unlatch the paper roll cover, then rotate the cover up back on its hinges (see [Figure 6](#)).

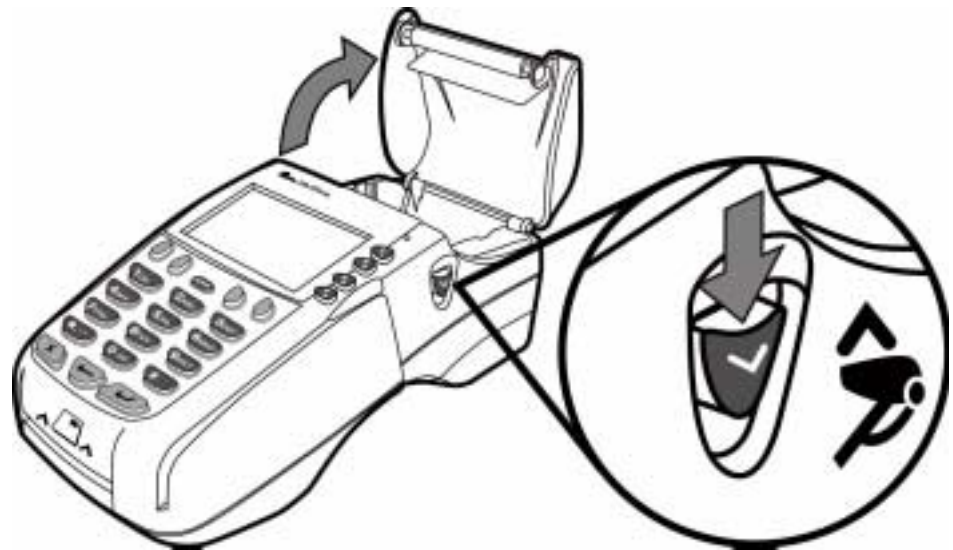


Figure 5 Printer Latch Button

- 3 If there is a partial roll of paper in the printer tray, remove it by lifting it up (see Figure 6).



Figure 6 Removing Partial Paper Roll

- 4 Loosen the glued leading edge of the paper, or remove the protective strip from the new roll of paper and cut a straight edge across its leading end.
- 5 Hold the roll so the paper feeds from the *bottom* of the roll.
- 6 Drop the paper roll into the printer tray, leaving 7 centimeters (about two inches) of paper sticking up past the serrated metal tear strip (see Figure 7).



Figure 7 Loading Paper Roll

- 7 Close the cover by gently pressing directly on the paper roll cover until it clicks shut. Allow a small amount of paper to extend outside the cover (see Figure 8).

NOTE



To prevent damage to the print roller on the paper roll cover, always close the cover by gently pressing down on the paper roll cover.



Figure 8 Closing Paper Roll Cover

For paper ordering information, refer to the [Accessories and Documentation](#) section.

Install/Replace MSAM Cards

When you first receive your Omni 37xx terminal, you may need to install one or more micromodule-size security access module (MSAM) cards, or you may need to replace old cards with new ones.



CAUTION

Observe standard precautions for handling electrostatically sensitive devices. Electrostatic discharges can damage this equipment. VeriFone recommends using a grounded anti-static wrist strap.

To change or install SAMs

- 1 Remove the power cord from the back of the terminal.
- 2 Place the terminal upside-down on a soft, clean surface to protect the lens from scratches.
- 3 Remove the locking screw and remove the MSAM compartment door (see Figure 9).

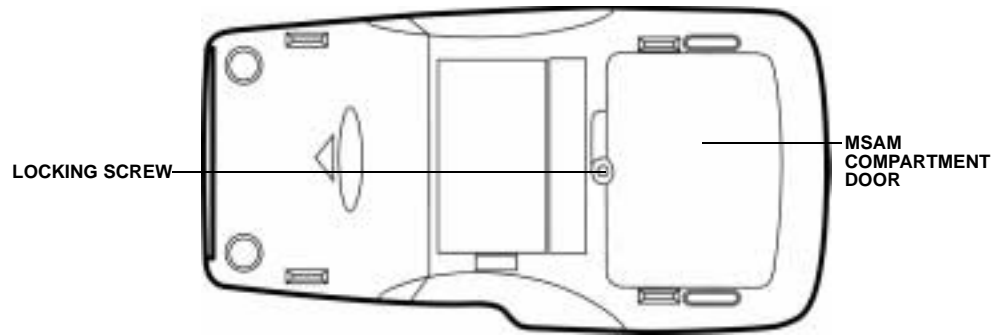


Figure 9 MSAM Compartment Door and Locking Screw

- 4 The MSAM cardholders are now accessible. Each cardholder consists of a hinged tilt-up cover attached to a connector base.
- 5 To unlock a cardholder, slide its locking plate to the unlocked position, shown by the OPEN arrow (see Figure 10).

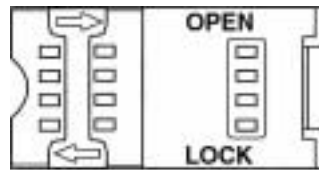


Figure 10 MSAM Cardholder Close-Up

- 6 Open the cardholder by pivoting the cover on its hinges away from its connector base (see Figure 11).

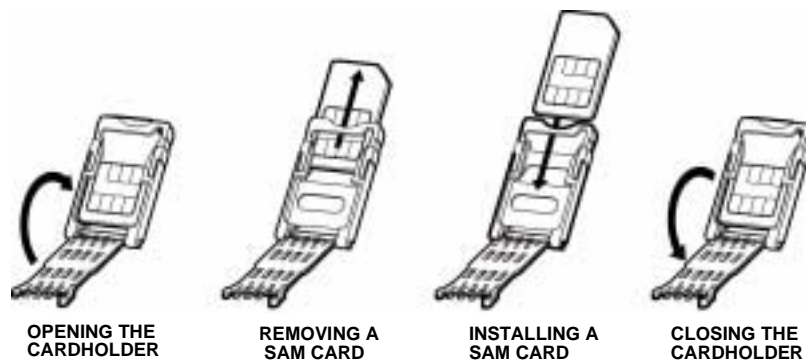


Figure 11 Using an MSAM Cardholder

- 7 Remove any previously-installed MSAM card by sliding the card from the cover.
- 8 Install an MSAM card by aligning the card and carefully sliding it within the guides on the cover until it is fully inserted.

NOTE



Before inserting the MSAM card, position it as shown in Figure 11, with the card's gold contacts facing the smart card reader end of the terminal. The cardholder connector base has a set of contacts and a notch post on one corner to ensure the MSAM card is positioned correctly when the cover is closed. The MSAM card has a notch on one corner to ensure that it fits into the connector base in only one way.

- 9 Close the cardholder by pivoting the cover back to its connector base (see Figure 11).
- 10 Lock each MSAM cardholder by sliding its locking plate, as shown by the LOCK arrow, until the plate stops (see Figure 10).
- 11 Replace the MSAM compartment door and reinstall the locking screw (see Figure 9).

Connect Optional Device(s)

The Omni 37xx supports some peripheral devices designed for use with electronic point-of-sale terminals.

Use the two ports on the back panel to connect up to two optional devices.



CAUTION

Before connecting any peripheral device, remove the power cord from the back of the terminal and be sure the LED is not lit. Reconnect the power cord only *after* you are finished connecting the peripheral device(s). For complete information about peripheral installation and use, refer to the user documentation supplied with those devices.

The following sections discuss the most common optional devices supported by this terminal.

Table 2 Optional Devices Supported

Optional Device	Connection Port
Barcode	PIN Pad
CR 600	RS232
Console	PIN Pad
External LAN	RS232
PIN Pad	PIN Pad
RS232 Electronic Cash Register	RS232

Other optional devices may be supported. For more information, please contact your VeriFone distributor.

NOTE



RS232-type devices do not work with the PIN Pad port; PIN Pad-type devices do not work with the RS232 port. If an optional peripheral device does not function correctly, check the port connection.

Connect PIN Pad, Smart Card Reader, or Bar Code Wand

To Connect PIN Pad, Smart Card Reader, or Bar Code Wand

- 1 If necessary, insert the small modular plug on one end of the PIN pad cable into the PIN pad's modular jack.
For a bar code wand, insert the RJ45-type cable into the PIN pad serial port on the back panel.
- 2 If installing a PINPad 101, PINpad 201 or PINpad 1000, position and insert the grommet to secure the cable connection.

If a cable is not already connected to the smart card reader or PINpad 501, insert the small modular plug on one end of the interface cable into the optional device's modular jack.

- 3 Insert the larger RJ45-type connector on the other end of the PIN pad cable into the PIN pad serial port on the terminal's back panel.

Figure 12 provides an example of a Smart Card Reader connection to a Bar code and PIN pad serial port.

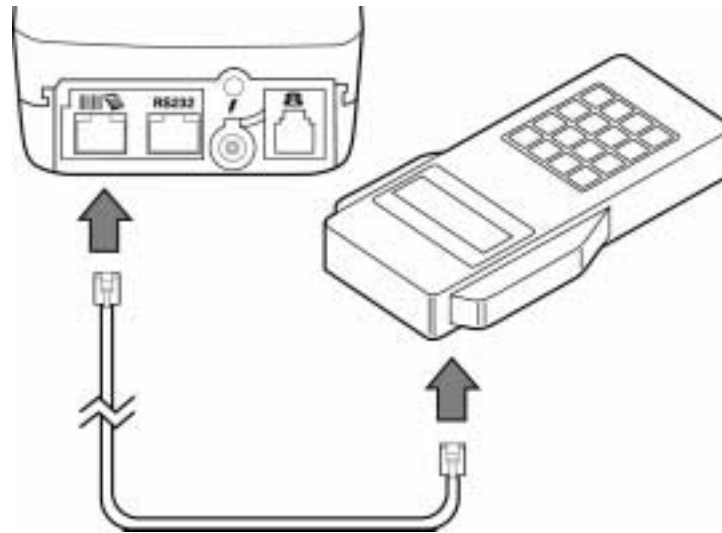


Figure 12 Smart Card Reader Connection

Connect Check Reader

The Omni 37xx base supports two VeriFone check readers: CR 600 and CR 1000*i*. Contact your VeriFone representative or visit the online store at www.verifone.com for information on these devices. Figure 13 provides an example of a peripheral connection to an RS232 port.



Check readers require a separate power source. Before connecting a check reader or similar device, remove the power cord from the back of the terminal and be sure the LED is not lit.

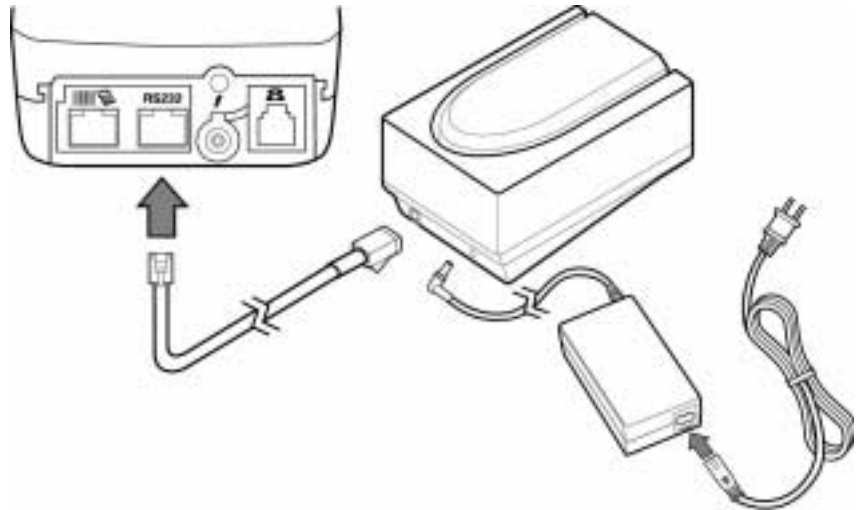


Figure 13 CR 600 Check Reader Connection

External Printers Supported

Although most Omni 37xx variants have an internal thermal printer, it may be convenient to print larger print runs (for example, daily or weekly reports) to an external printer. The Omni 37xx base supports three VeriFone external printers: P250, P350, and P900. Contact your VeriFone representative or visit the online store at www.verifone.com for information on these devices. External printer connections are through the same port as check readers (see Figure 13).

Connect Terminal Power Pack

When you have finished connecting any optional peripheral(s), you are ready to connect the Omni 37xx to a power source:



CAUTION

Using an incorrectly rated power supply may damage the terminal or cause it not to work as specified. Before connecting check to ensure that the power supply being used to power the terminal matches the requirements specified at the back of the terminal. (see Chapter 3, [Specifications](#), for detailed power supply specifications). Obtain the appropriately rated power supply before continuing with troubleshooting.

- 1 Insert the round barrel connector (see [Figure 14](#)) into the power port, identified by the icon at right.



NOTE



The round barrel connector on the power pack cable has a plastic lock tab that secures the power cable to the terminal.

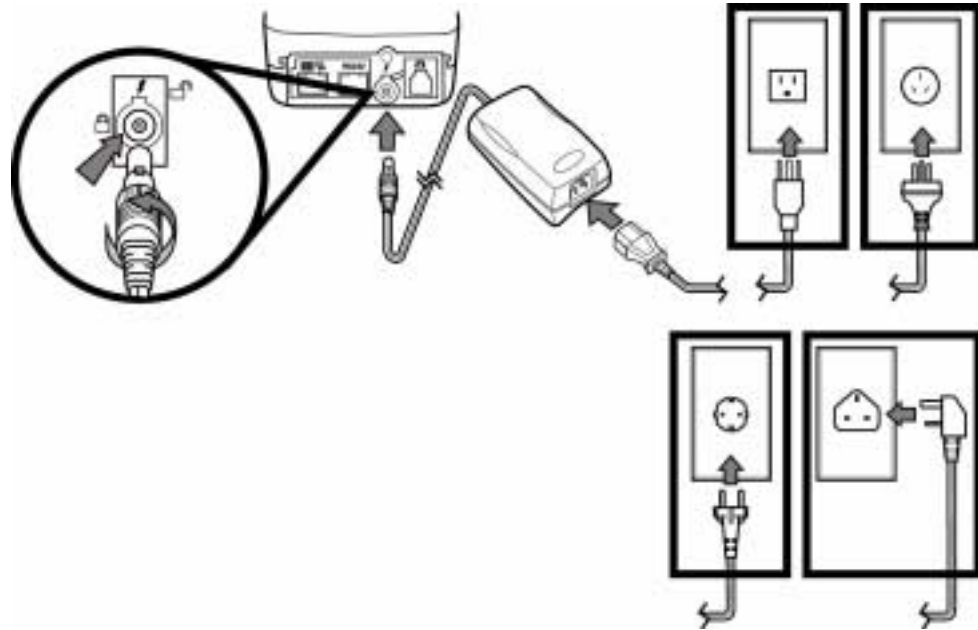


Figure 14 Omni 37xx Power Pack Connection

- To lock the connector into the power port, align the plastic lock tab so it points up. Insert the connector, then twist it to the left.
 - To unlock the connector, twist it to the right.
- 2 Insert the power cable into the power pack.
 - 3 Plug the power pack cable into a wall outlet or surge protector.



WARNING

Do not plug the power pack into an outdoor outlet or operate the terminal outdoors. Also, disconnecting power during a transaction may cause transaction data files that are not yet stored in terminal memory to be lost.



NOTE

To protect against possible damage caused by lightning strikes and electrical surges, consider installing a power surge protector.

When the terminal has power, the LCD screen lights and the green LED indicator flashes on and off if the printer has no paper, or stays lit if paper is loaded.

If an application is loaded in the terminal, it starts after the initial VeriFone copyright screen and displays a unique copyright screen. If no application is loaded in the terminal, **DOWNLOAD NEEDED** appears on screen after the initial VeriFone copyright screen.

Routing The Cables Using Wire Clips

Since the Omni 37xx terminal is a hand-over solution, make sure the cables are routed loosely. Use the two wire clips provided with each terminal to organize loose cables. See [Figure 15](#).

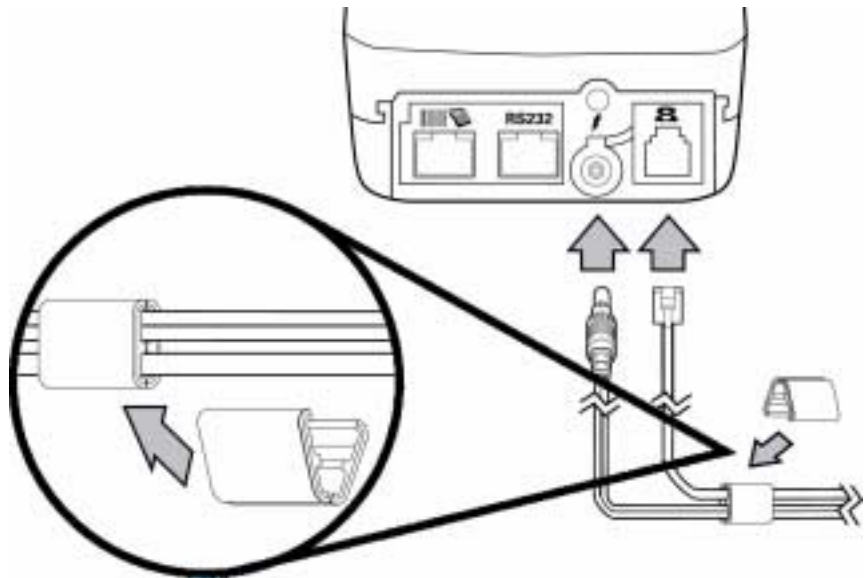


Figure 15 Routing Cables Using Cable Wires

- 1 Place the telephone cord and power cable into the grooves inside the wire clip.
- 2 Close the wire clip and press the halves together until the it snaps closed.
- 3 Unsnap the wire clip, to reposition as necessary.

Smart Card Transaction

The smart card transaction procedure may vary from one application to an another. Verify with your application provider before you perform a smart card transaction.

To Conduct a Smart Card Transaction

- 1 Position a smart card with the contacts facing upward (see [Figure 16](#)).
- 2 Insert it into the smart card reader slot in a smooth, continuous motion until it seats firmly.

- 3 When the LCD screen indicates the transaction is completed, remove the card.

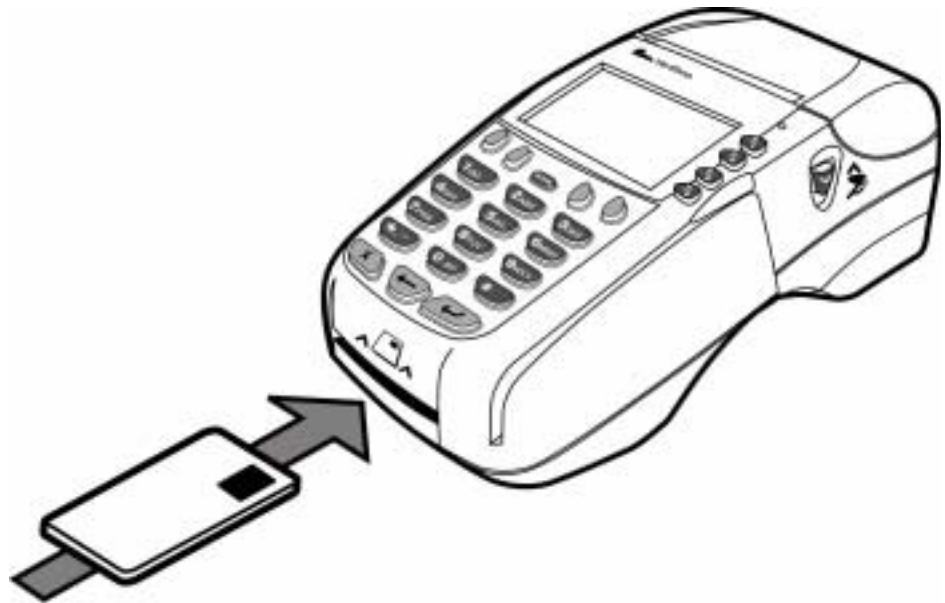


Figure 16 Inserting the Smart Card



Leave the smart card in the card reader until the transaction is completed. Premature removal invalidates the transaction.

Magnetic Card Reader Use

To Conduct a Credit/Debit Card Transaction

- 1 Position a magnetic card with the stripe facing down and inward, toward the keypad.
- 2 Swipe it through the magnetic card reader (see Figure 17).

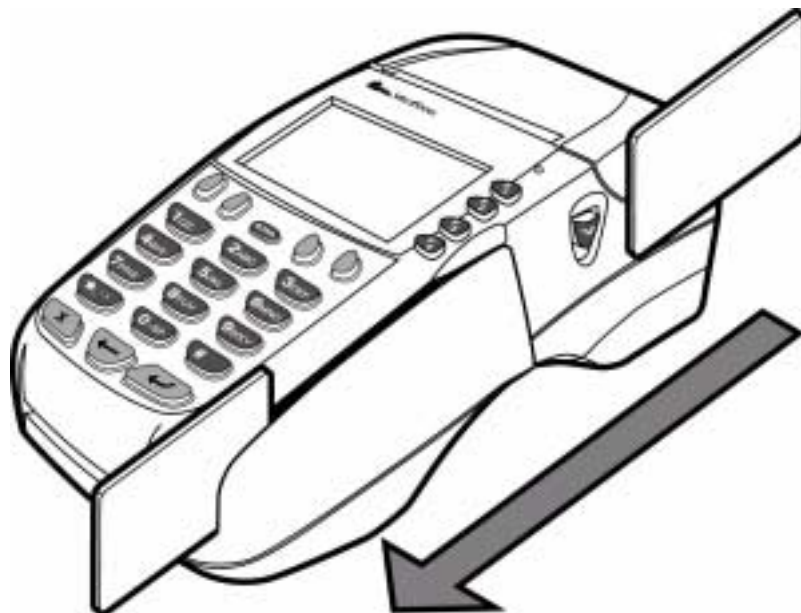


Figure 17 Using the Magnetic Card Reader



CHAPTER 3

Specifications

This chapter discusses power requirements, dimensions and other specifications of the Omni 37xx terminal.

Power Omni 37xx terminal: 24 V DC; 1.5 A

DC Power Pack For Non-switching Power Supplies:

- UL, ITE Listed, Class 2 Power Supply
 - Input rated: 110 - 127V ac, 60 Hz.
 - Output rated: 24V dc 1.5 A

For switching Power Supplies:

- UL, ITE Listed, Class 2, Switching Power Supply
 - Input rated: 100 - 240 V ac, 50/60 Hz.
 - Output rated: 24 V dc, 1.5 A

Barrel Connector Polarity:



- Temperature**
- Operating temperature: 0° to 40° C (32° to 104° F)
 - Storage temperature: -18° to + 66° C (0° to 150° F)
 - Relative humidity: 15% to 90%; no condensation

- External Dimensions**
- Length: 210 mm (8.3 in)
 - Width: 104 mm (4.1 in)
 - Depth: 83 mm (3.3 in)
 - Weight: 760 gms (1.675 lb)

Weight Terminal unit weight: 1.28 kg (2.82 lb)

Shipping weight: 3.26 kg (7.19 lb)

The shipping weight includes: shipping carton, terminal, power pack and cable, telephone line cable, one *Omni 37xx Certifications and Regulations*, and one *Omni 37xx Quick Installation Guide*.



Maintenance

The Omni 37xx has no user-maintainable parts.

Cleaning the Terminal

To clean the terminal, use a clean cloth slightly dampened with water and a drop or two of mild soap. For stubborn stains, use alcohol or an alcohol-based cleaner. For best results, use a VeriFone Cleaning Kit (refer to the [Accessories and Documentation](#) section).



CAUTION Never use thinner, trichloroethylene, or ketone-based solvents – they may deteriorate plastic or rubber parts.

Do not spray cleaners or other solutions directly onto the keypad or LCD screen.

Smart Card Reader

Do not attempt to clean the smart card reader. Doing so may void any warranty. For smart card reader service, contact your VeriFone distributor or service provider.



VeriFone Service and Support

For Omni 37xx terminal problems, contact your local VeriFone representative or service provider.

For Omni 37xx product service and repair information:

- USA – VeriFone Service and Support Group, 1-800-834-9133, Monday - Friday, 8 A.M. - 7 P.M., EST
- International – Contact your VeriFone representative

Returning a Terminal for Service

Before returning the Omni 37xx terminal to VeriFone, you must obtain a Merchandise Return Authorization (MRA) number. The following procedure describes how to return one or more Omni 37xx terminals for repair or replacement (U.S. customers only):

NOTE



International customers, please contact your local VeriFone representative for assistance with your service, return, or replacement.

- 1 Gather the following information from the printed labels (see [Figure 18](#)) on the bottom of *each* Omni 37xx terminal to be returned:
 - Product ID, including the model and part number. For example, “OMNI 3700” and “PTID xxxxxxxx”
 - Serial number (S/N xxx-xxx-xxx)
- 2 Within the United States, call VeriFone toll-free at 1-800-834-9133.
- 3 Select the MRA option from the automated message. The MRA department is open Monday–Friday, 8 A.M.–7 P.M., EST.
- 4 Give the MRA representative the information gathered in Step 1. If the list of serial numbers is long, you can fax the list, along with the information gathered in Step 1, to the MRA department at 502-329-5947 (U.S.)
 - Please address the fax clearly to the attention of the “VeriFone MRA Dept.”
 - Include a telephone number where you can be reached and your fax number.
 - You will be issued MRA number(s) and the fax will be returned to you.

NOTE



One MRA number must be issued for each Learning Products Template Version 2.1 terminal you return to VeriFone, even if you are returning several of the same model.

- 5 Describe the problem(s) and provide the shipping address where the repaired or replacement unit must be returned.
- 6 Keep a record of the following items:
 - Assigned MRA number(s).
 - VeriFone serial number assigned to the Omni 37xx terminal you are returning for service or repair (terminal serial numbers are located on the bottom of the unit (see [Figure 18](#)).
 - Shipping documentation, such as air bill numbers used to trace the shipment.
 - Model(s) returned (model numbers are located on the VeriFone label on the bottom of the Omni 37xx terminal).

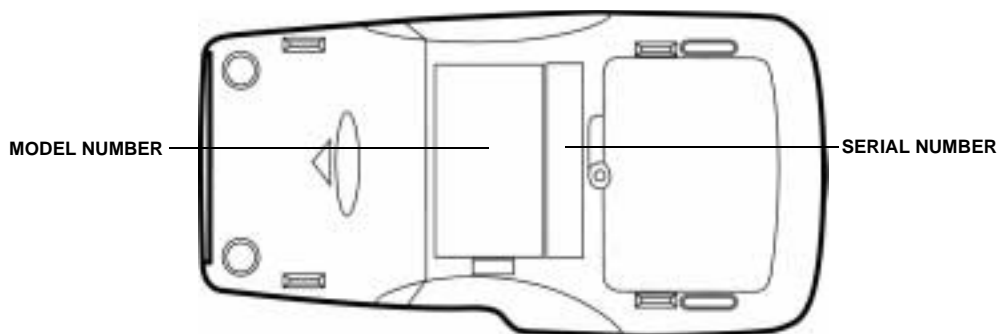


Figure 18 Information Label on Terminal Bottom

Accessories and Documentation

VeriFone produces the following accessories and documentation for the Omni 37xx terminal, as listed below. When ordering, please refer to the part number in the left column.

VeriFone Online Store at www.store.verifone.com

- USA – VeriFone Customer Development Center, 800-233-0522, Monday - Friday, 7 A.M. - 5 P.M., MST
- International – Contact your VeriFone representative

Download Cables

05651-xx	MOD10-MOD10 (terminal-to-terminal)
26263-xx	02xxx MOD10-PC DB25F (terminal-to-PC)
26264-xx	02xxx MOD10-PC DB9F (terminal-to-PC)

Cables for Optional Peripherals

07041-xx	MOD10-MDIN9 (CR 600/CR 1000i check readers; P250/P355/P900 external printers)
07042-xx	MOD10-4P4C (all VeriFone PIN pads)

Telephone Line Cord	00124-17	2.1-meter (7-foot) telephone line cord, black color, with modular RJ11-type connectors
Power Pack		Contact your local VeriFone distributor to determine which power pack or power cord fits your needs.
	CPS05791-3A	DC power pack (universal)
	21973-01	Power cable (US)
Wire clip	07826, Rev A	Wire clip
Thermal Printer Paper	CRM0039	High-grade thermal printer paper, 58-mm (2.25-inch) width, 25-meter (82-feet) length; single roll
	CRM0039-01	CRM0039 in 30-roll bulk package
	CRM0040	High-grade thermal printer paper, 58-mm (2.25-inch) width, 33-meter (108.26-feet) length; single roll
Paper Roll Spindle	02117-03	Plastic spindle for 58-mm (2.25-inch) rolls of thermal printer paper; orange color
VeriFone Cleaning Kit	02746-01	Cleaning Kit
Documentation	22398, Rev. C	<i>Omni 3750 Quick Installation Guide</i>
	22429, Rev. B	<i>Omni 37xx Certifications and Regulations</i>
	19733, Rev. E	<i>Verix Programmer's Manual</i>



Troubleshooting Guidelines

The troubleshooting guidelines provided in the following section are included to assist you in successfully installing and configuring your Omni 37xx terminal. If you have problems operating your Omni 37xx terminal, please read through these troubleshooting examples.

If the problem persists even after performing the guidelines outlined, or if the problem is not described below, contact your local VeriFone representative for assistance. Typical examples of malfunction you may encounter while operating your Omni 37xx terminal and steps you can take to resolve them are listed.

NOTE

The Omni 37xx terminal comes equipped with tamper-evident labels. The Omni 37xx contains no user serviceable parts. Do not, under any circumstance, attempt to disassemble the terminal. Perform only those adjustments or repairs specified in this installation guide. For all other services, contact your local VeriFone service provider. Service conducted by parties other than authorized VeriFone representatives may void any warranty.

CAUTION

Using an incorrectly rated power supply may damage the terminal or cause it not to work as specified. Before troubleshooting, check to ensure that the power supply being used to power the terminal matches the requirements specified at the back of the terminal. (See Chapter 3, [Specifications](#), for detailed power supply specifications). Obtain the appropriately rated power supply before continuing with troubleshooting.

Blank Display

When the Omni 37xx terminal LCD screen does not show correct or clear readable information:

- Check all terminal power connections.
- Check all cable connections and verify that the telephone line is properly connected.
- If the problem persists, contact your local VeriFone service provider for assistance.

Terminal Does Not Dial Out

If the terminal does not dial out:

- Check the telephone line connections.
- Check to make sure the telephone line is working by plugging it into a working telephone and listening for a dial tone.

- Replace the telephone cable that connects the terminal with a cable you know is working correctly.
- If the problem persists, contact your local VeriFone service provider for assistance.

Printer Does Not Print

If the printer does not work properly:

- Check all terminal power connections. The internal thermal printer receives power directly from the Omni 37xx terminal. The green power-on indicator light must be ON.
- Check to make sure the paper roll cover is properly latched.
- If the green power-on indicator is blinking on and off, the printer is out of paper. Open the paper roll cover and install a new roll of printer paper, as described in [Install Paper Roll](#).
- If the problem persists, contact your VeriFone distributor or service provider.

Printer Paper Jam

If paper jams up inside the printer:

- Press the button on the side of the terminal to unlatch the paper roll cover, then open the cover.
 - Remove the damaged paper from the paper roll and clear the feed mechanism.
 - Re-install the roll of printer paper, as described in [Install Paper Roll](#).
 - If the problem persists, it may be due to poor paper quality. Install a new roll of higher-quality paper.

See [To Install a Paper Roll](#).

WARNING



Poor-quality paper may jam the printer. For high-quality VeriFone paper, refer to the [Accessories and Documentation](#) section.

Peripherals Device Does Not Work

If any of the peripheral device (PIN Pad, Smart Card Reader, or Bar Code Wand) does not work properly:

- Check the power cable connection to the peripheral device.
- Check that the device connected to the serial port has power and is functioning properly. If possible, perform a self-test on the device in question.
- The cable connecting the optional device to the Omni 37xx terminal serial port may be defective. Try a different serial cable.
- If the problem persists, contact your local VeriFone representative for assistance.

See [Connect Optional Device\(s\)](#).

Keypad Does Not Respond

If the keypad does not respond properly:

- Check the LCD screen. If it displays the wrong character or nothing at all when you press a key, follow the steps outlined in [Transactions Fail To Process](#).
- If pressing a function key does not perform the expected action, refer to the user documentation for that application to ensure you are entering data correctly.
- If the problem persists, contact your local VeriFone representative for assistance.

Transactions Fail To Process

There are several possible reasons why the terminal may not be processing transactions. Use the following steps to check troubleshoot failures.

Check Magnetic Card Reader

- Perform a test transaction using one or more different magnetic stripe cards to ensure the problem is not a defective card.
- Ensure that you are swiping cards properly. With the Omni 37xx card reader, the black, magnetic stripe on the card should face inward, toward the keypad.
- Process a transaction manually using the keypad instead of the card reader. If the manual transaction works, the problem may be a defective card reader. Contact your VeriFone distributor or service provider. If the manual transaction does not work, proceed to [Check Telephone Line](#).

Check Smart Card Reader

- Perform a test transaction using several different smart cards to ensure the problem is not a defective card.
- Ensure that the card is inserted correctly.
- Ensure the MSAM cards are properly inserted in the cardholders and the cardholders are properly secured (see [Install/Replace MSAM Cards](#)).
- Process the transaction manually using the keypad instead of the card reader. If the manual transaction processes, the problem may be a defective card reader. Contact your VeriFone distributor or service provider. If the manual transaction does not process, proceed to [Check Telephone Line](#).

Check Telephone Line

- Disconnect the telephone line from the back of the Omni 37xx terminal and connect it to a working telephone to check for a dial tone. If there is no dial tone, replace the telephone cable.
- If the problem appears to be with the telephone line, check with the party you are trying to call to see if their system is operational. If they are not experiencing difficulties with their line, contact the telephone company and have your line checked. If the telephone line works, contact your local VeriFone representative for assistance.



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Omni 37xx

Installation Guide

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