

QX700

Installation Guide

DRAFT
REVISION A.10



QX700 Installation Guide
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This guide is the primary source of information for setting up and installing the QX700 contactless reader.

Audience

This guide describes the reader's features, and provides the basic information for its installation and configuration.

Organization

This guide is organized as follows:

[Chapter 1, Device Overview](#). Provides an overview of the reader.

[Chapter 2, Setup](#). Explains setup and installation of the device, selecting a location, and establishing connections with other devices.

[Chapter 3, Specifications](#). Discusses the power requirements and dimensions of the reader.

[Chapter 4, Maintenance and Cleaning](#). Explains maintenance of the device.

[Chapter 5, Service and Support](#). Provides information on contacting your VeriFone service provider and information on how to order accessories or documentations from VeriFone.

[Chapter 6, Troubleshooting Guidelines](#). Provides troubleshooting guidelines should you encounter a problem with unit installation and configuration.

Related Documentation

To learn more about the reader, refer to the following set of documents and their associated VeriFone Part Numbers (VPNs).

QX700 Certifications and Regulations Sheet	VPN - DOC139-001-EN
QX700 Quick Installation Guide	VPN - DOC139-002-EN
QX700 Reference Guide	VPN - DOC139-004-EN
Contactless Software Programmers Guide	VPN - 26807
CTLS Interface Developers Guide	VPN - 27584




Conventions and Acronyms

This section describes the conventions and acronyms used in this guide.

Document Conventions

Various conventions are used to help you quickly identify special formatting. Table 1 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 and Acronyms .
	The pencil icon is used to highlight important information.	The cable used is controlling device-dependent.
	The caution symbol indicates possible hardware or software failure, or loss of data.	Avoid placing the device near metallic objects.
	The lightning symbol is used as a warning when bodily injury might occur.	For safety, do not string cables or cords across a walkway.

Acronym Definitions

Various acronyms are used in place of the full definition. Table 2 presents acronyms and their definitions.

Table 2 Acronym Definitions

Acronym	Definitions
AVT	Artema Vending Terminal
CTLS	Contactless
LED	Light-Emitting Diode
MDB	Multi Drop Bus
MRA	Merchandise Return Authorization
NFC	Near Field Communications
POS	Point-of-Sale
RH	Relative Humidity
RJ45	Registered Jack 45
RTS/CTS	Request to Send / Clear to Send
SAM	Secure Access Module
SRAM	Static Random-Access Memory

Device Overview

This chapter provides a brief description of VeriFone’s QX700 contactless reader.

The device is a peripheral contactless payment processing device that supports payment transaction in a variety of environments, specifically outdoor and unattended markets.

Features and Benefits

The QX700 is VeriFone’s contactless acceptance peripheral device. It creates an economical solution for merchants who are looking to expand their payment acceptance options. The contactless card reader allows a customer to quickly pay for items using their contactless card and tapping it on the device, thus completing their transaction with speed and ease, and without further input.

Exceptional Ease of Use

The following features of the device simplifies transactions in various environments:

- RS-232 connectivity is integrated into the device to conveniently suit most unattended environments

NOTE



This feature is not available for AVT compact devices.

-
- Contactless logo placement on device for optimized user experience
 - Bright LEDs, display transaction process progress

NOTE



The implementation of the LED color configuration varies by (or may not be present in some) regional locations.

-
- Buzzer for audio confirmation of contactless transactions
 - A SAM connector
 - Compact, sleek, and stylish shape
 - Designed for outdoor use
 - Quick and easy to use

- Rugged and reliable design
- Connects with various VeriFone unattended POS terminals
- Conducive design supports payment transactions in a variety of payment situations, such as transportation, vending, and kiosk environments

Security The following EMVCo features of the device ensure secure contactless transactions:

- EMV Level 1 and Level 2 Type Approval

Contactless Capabilities The device includes the following contactless capabilities:

- VeriFone's advanced contactless architecture future-proofs your investment with Single Contactless Interface (SingleCI), SoftSAMs, and side-by-side application architecture systems.
- Supports contactless cards as well as NFC phones, supporting the following card types:
 - ISO 14443 A&B
 - MiFare (MiFare + / DESfire)
 - ISO 18092 Active Communications (NFC — peer-to-peer mode)
 - FeliCa
 - PayPass
 - payWave

Setup

This chapter describes the setup procedure for the contactless reader, in the following sections:

- Selecting Reader Location
- Unpacking the Shipping Carton
- Examining the Reader Features
- Installing or Replacing SAM Cards
- Connecting Unit to a Controlling Device
- Contactless Support
- Mounting the Reader
- Using the Reader

Selecting Reader Location

Use the following guidelines when selecting a location for your contactless reader:

- Select a location convenient for the customer.
- Select a location near the device that will be connected to the contactless unit.

WARNING



For safety, do not string cables or cords across a walkway.

CAUTION



~~Metallic objects in close proximity to the reader may cause card detection problems.~~ Avoid placing metallic objects at the front of the card reader, ~~apart from the mounting surface.~~

Environmental Factors

The contactless device is waterproof and dustproof, and is suitable for outdoor use. The reader is designed for any rainfall to run off of it and fade-proof from sun exposure.

Unpacking the Shipping Carton

Open the shipping carton and carefully inspect its contents for possible tampering or shipping damage.

To unpack the shipping carton

- 1 Remove the unit from the shipping carton. The standard package contains the unit only and does not include any other cables or accessories. Refer to [Accessories and Documentation](#) for more information about device's related accessories.
- 2 Remove any protective wrap before mounting the unit.

CAUTION



Remove the protective plastic over the front display before use, or the unit may not work properly.

-
- 3 Save the shipping carton and packing material for future repacking or moving of the device.

WARNING



Do not use a unit that has been damaged.

If a label or component appears damaged, please notify the shipping company and your VeriFone service provider immediately.

Examining the Reader Features

Before you continue the installation process, notice the features of the contactless reader (see Figure 1 and Figure 2).

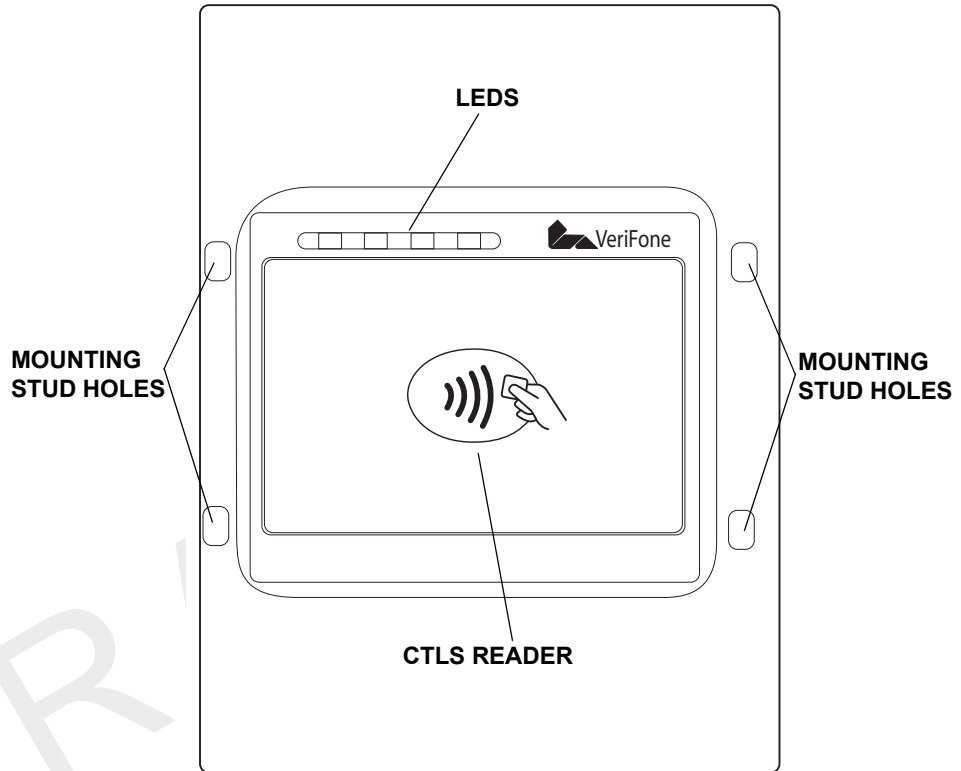


Figure 1 QX700 Front Features

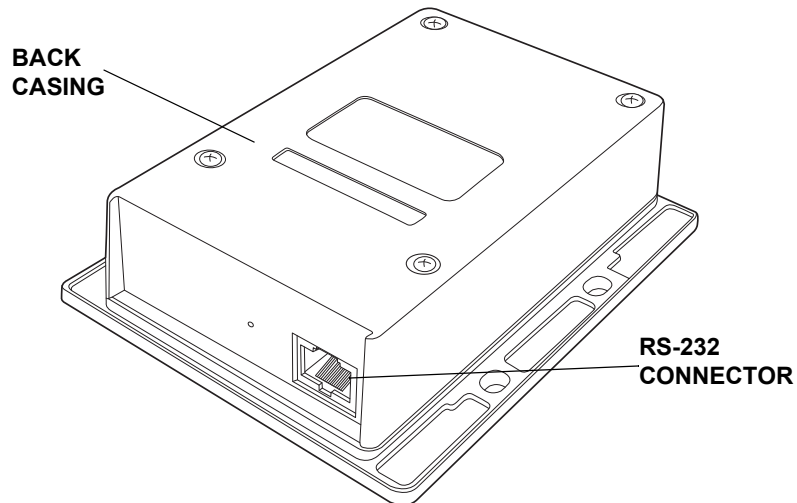


Figure 2 QX700 Rear View

NOTE



VeriFone ships variants of the reader for different markets. Your unit may have a different configuration and may look different from the illustration. The indicator LED options may or may not be present. However, the basic processes described in this guide remain the same, regardless of the configuration.

Front Functions The front of the contactless device shows the following:

- Customer-view **indicator LED**.
- A **contactless reader** panel.

Back Functions The rear of the contactless device shows the RS-232 connector.

Installing or Replacing SAM Cards

You may need to install a security access module (SAM) card or replace the old card.



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

To install or replace SAM cards

- 1 Disconnect the device from any external devices.
- 2 Place the reader face down on a soft, clean surface to protect from scratches.
- 3 Using a Phillips head screwdriver, unscrew and remove the back casing to access the SAM card holder.

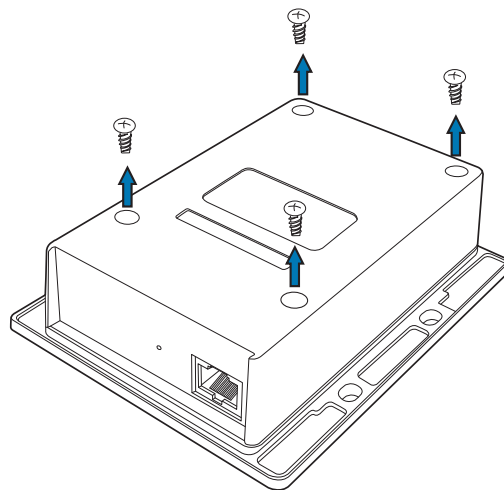


Figure 3 Removing QX700 Back Casing

- 4 Open the SAM cardholder, by sliding the locking tab to the **OPEN** position.
- 5 Carefully slide the SAM card into the slot, by aligning the card and carefully sliding into the slot until fully inserted.

- 6 Close the SAM cardholder.
- 7 Slide the locking tab to the **LOCK** position.



NOTE Before inserting the SAM card, position it as shown in [Figure 4](#), with the card's gold contacts facing outward, toward the unit. The cardholder slot in the reader has a set of contacts.

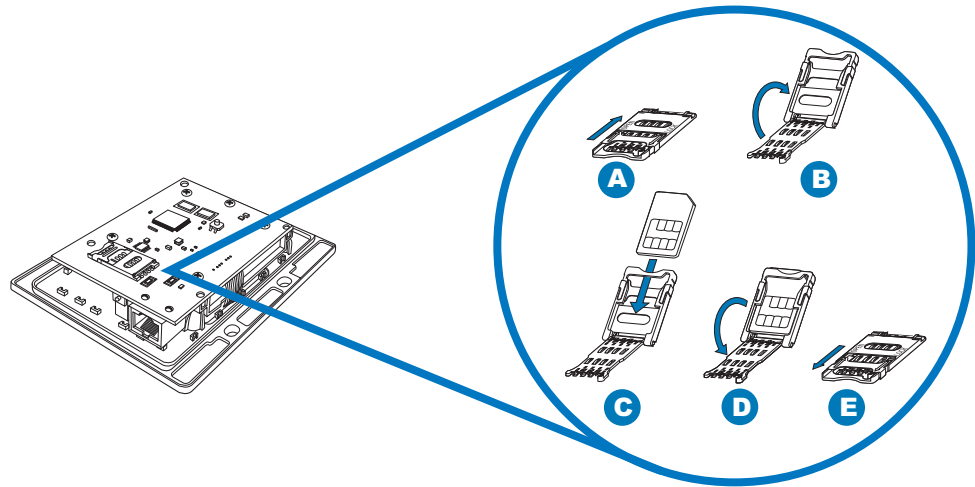


Figure 4 Installing SAM Card

- 8 Replace the back casing and tighten the screws, after inserting or replacing the necessary cards.

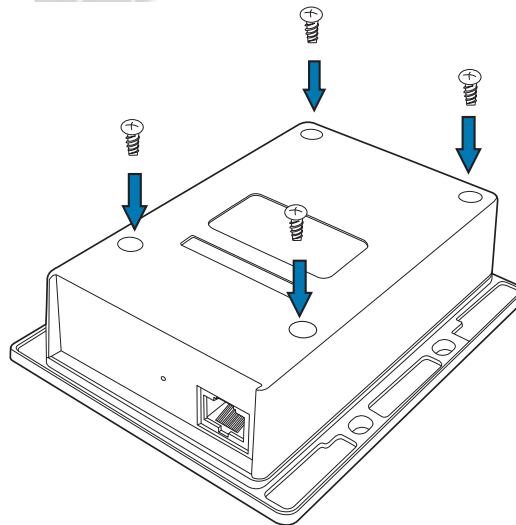


Figure 5 Replacing QX700 Back Casing



NOTE Tighten the screws using a Phillips head screw and with a recommended tightening torque of 4.0 kgfcm.

- 9 Reconnect the data cable to the device.

Connecting Unit to a Controlling Device

The device's rear panel has a modular, RS-232 interface port for power and communication connection to the controlling device.

This section discusses various connections between the contactless unit and controlling devices.

To connect to a controlling device

- 1 Connect the modular plug on the cable to the modular jack on the rear of the contactless device.
- 2 Connect the other end of the cable to the connector (device dependent) of the controlling device. See [Figure 6](#) for different cabling situations.

NOTE



The cable used is controlling device-dependent. Various connections include: vending machines, electronic payment terminals, PCs, and other VeriFone unattended terminals. Contact your local VeriFone representative or distributor to see which connections are suitable for your needs. See [Accessories and Documentation](#) for cable ordering information.

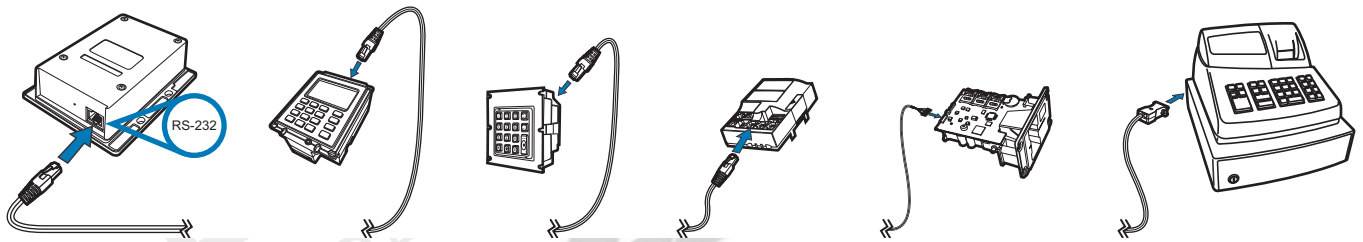


Figure 6 Various QX700 Cabling Connections

CAUTION



Using an incorrectly rated power supply can damage the unit or cause it to not work properly.

NOTE



For cable removal, use the same steps described above in reverse. If exchanging cables, use a VeriFone-approved cable.

Contactless Support

This device supports the global contactless program specifications from American Express, MasterCard, Visa, Discover, ISIS SmartTap, and Google Wallet with virtually no changes to existing payment hardware or software.

Mounting the Reader

The reader is designed to be flush-mounted to the mounting surface, without further need for any external mounting devices.



Your mounting surface may have different installation instructions. Refer to your mounting device's user guide for further instructions.

- To mount the reader**
- 1 Align the contactless unit stud holes with the stud holes of your mounting surface.
 - 2 Flush-mount the reader, and secure the unit with M5 nuts.



~~Metallic objects in close proximity to the reader may cause card detection problems.~~ Avoid placing metallic objects at the front of the card reader, ~~apart from the mounting surface.~~



Use M5 mounting studs with a minimum length of 12 mm.

To tighten the nuts, use either a socket wrench, or an open jaw wrench, with a recommended tightening torque of 7.0 kgfcm.

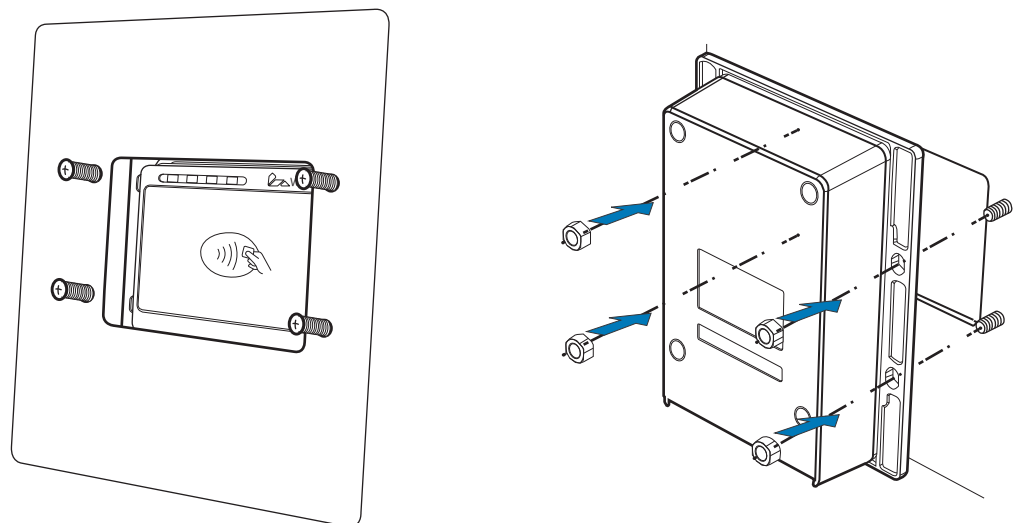



Figure 7 Mounting the Contactless Reader

Using the Reader

The contactless reader is only active when signaled by an application for the conduction of a contactless card transaction.

When active, the device's contactless logo lights up.

To conduct a contactless transaction

To conduct a contactless transaction, hold the card (within 4 cm) or gently tap against the surface of the contactless antenna, marked by the logo .

The contactless unit uses various audible and visual confirmations to confirm transactions.

NOTE



The actual audible and visual confirmations may vary depending on regional and customer requirements.

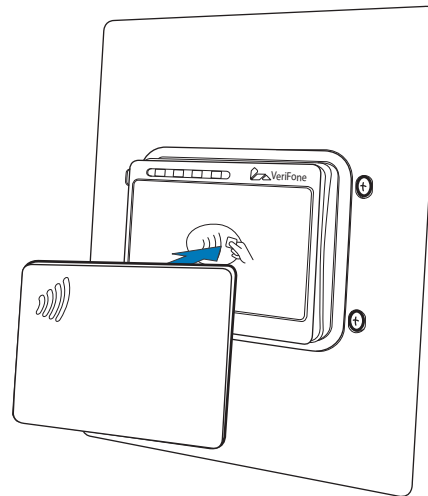


Figure 8 Conducting a Contactless Transaction



Specifications

This chapter discusses power requirements, dimensions, and other specifications of the contactless reader.

Unit Power Requirements

- Input voltage: 8V-43V DC (MDB)

Power Consumption

All power consumption modes are at 12 V:

- Card read mode: 4.3 W
- Idle mode: 0.24 W
- Sleep mode: 1.1 mW

Temperature

- Operating temperature: -20° to 70° C (-4° to 158° F)
- Relative humidity: 5% to 90% RH non-condensing

External Dimensions

- Length: 130 mm (5.12 in.)
- Width: 100 mm (3.94 in.)
- Depth: 535 mm (21.06 in.)

Weight

- Unit weight: 237 g (8.36 oz.)

Memory

- 2 MB x 16 b Flash
- 256 KB x 16 b SRAM

SAM Card Reader

- 1 Security Access Module (SAM)

CTLS Card Reader

- 4 LEDs for CTLS

Peripheral Ports

- 1 RJ45-based RS-232 serial port (with or without RS-232 receiver, model dependent)

Communication

- Baud rate: 19,200 to 115,200; default at 19,200
- Data format: 8-bits, no parity, one stop bit
- RTS/CTS: All off

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Maintenance and Cleaning

Your contactless device is a product of superior design and craftsmanship and should be treated with care. It has no user-serviceable parts.

The following suggestions will help you protect your warranty coverage.

- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the device in cold areas. When the device returns to its normal temperature, moisture can form inside the device and damage electronic circuit boards.
- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device. Use only a soft, clean, dry cloth for cleaning.

These suggestions apply equally to your contactless device, or any of its attachments or accessories. If your device is not working properly, take it to the nearest VeriFone-authorized service provider for servicing or replacement.

CAUTION



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

Additional Safety Information

The following is additional information for your safety in using this device.

Potentially Explosive Environments

When using the device in areas with potential risk of explosion, such as petrol stations, follow the advice of all signs and instructions. If there has been a leak, do not use this device.

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Service and Support

For QX700 problems, contact your local VeriFone representative or service provider.

For device product service and repair information:

- USA – VeriFone Service and Support Group, 1-800-834-4366, Monday - Friday, 8 A.M. - 8 P.M., eastern time.
- International – Contact your VeriFone representative.

Service Returns

Before returning the contactless reader to VeriFone, you must obtain a Merchandise Return Authorization (MRA) number. The following procedure describes how to return one or more contactless units 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 9](#)) on the bottom of each unit to be returned:
 - Product ID, including the model and part number. For example, “M139-xxx-xx-WWA” and “PTID xxxxxxxx.”
 - Serial number (S/N xxx-xxx-xxx).
- 2 Within the United States, call VeriFone toll-free at 1-800-834-4366.
- 3 Select the MRA option from the automated message. The MRA department is open Monday–Friday, 8 A.M.–8 P.M., eastern time.

- 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 1-727-953-4172 (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.



One MRA number must be issued for each unit 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 unit you are returning for service or repair (serial numbers are located on the bottom of the unit, see [Figure 9](#)).
 - 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 unit).

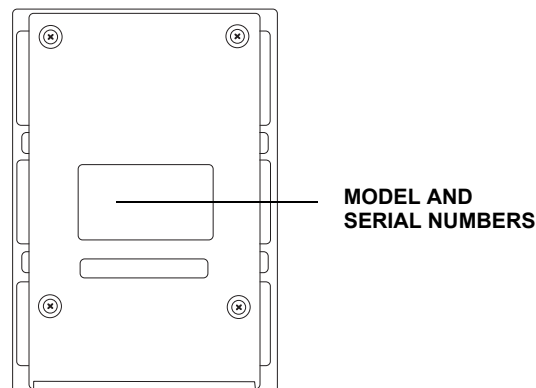


Figure 9 Information Labels on Unit Bottom

Accessories and Documentation

VeriFone produces accessories and documentation for the contactless reader. 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, 1-800-834-4366, Monday - Friday, 7 A.M. - 8 P.M., eastern time
- International – Contact your VeriFone representative

Cables The following cables can be used with the contactless reader. Contact your local VeriFone distributor to determine which cable fits your needs:

CBL139-001-XX-A	QX700–RS-232 modular cable. Connects to Artema Controller.
CBL139-002-XX-A	QX700–RS-232 modular cable. Connects to MX 700.
CBL139-003-XX-A	QX700–RS-232 modular cable. Connects to VX 700.
CBL139-004-XX-A	QX700–AVT Compact Host cable. (non-RS–232 transceiver version).
CBL139-005-XX-A	QX700–DB9 Serial power cable. Connects the QX700 to PC host.

Various others, depending on what they connect to. Contact your local VeriFone representative or service provider to identify the best cable for your needs.

External Power Supply Power pack connection to a PC host requires a separate power supply. Contact your local VeriFone distributor to determine which power pack or power cord fits your needs:

PWR268-001-01-B	Universal DC power pack (supplied separately)
CBL000-008-02-A	AC power cord (US)
CBL000-006-02-A	AC power cord (EU)
CBL000-007-02-A	AC power cord (UK)

Cleaning Kit

02746	VeriFone Cleaning Kit
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Documentation

QX700 Certifications and Regulations Sheet	VPN - DOC139-001-EN
QX700 Quick Installation Guide	VPN - DOC139-002-EN
QX700 Reference Guide	VPN - DOC139-004-EN
Contactless Software Programmers Guide	VPN - 26807
CTLS Interface Developers Guide	VPN - 27584

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Troubleshooting Guidelines

This chapter lists possible malfunctions that may occur while operating a QX700 device and the appropriate corrective action. If the problem persists - even after performing the outlined guidelines, or if the problem is not described, contact your local VeriFone representative for assistance.

NOTE



The unit comes equipped with tamper-evident labels. The reader contains no user-serviceable parts. Do not, under any circumstance, attempt to disassemble the unit. Perform only those adjustments or repairs specified in this 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



Not all units require use of a power supply.

Using an incorrectly rated power supply may damage the unit or cause it not to work properly. Before troubleshooting, ensure that the power supply used to power the unit matches the requirements specified on the back of the unit (see [Specifications](#) for detailed power supply specifications). If not, obtain the appropriately rated power supply before continuing with troubleshooting.

Transactions Fail To Process

If a contactless transaction fails to process:

- Perform a test transaction using one or more different contactless cards to ensure the problem is not a defective card.
- Ensure that you are conducting the contactless transaction properly (see [Using the Contactless Reader](#)).
- Ensure that all cables and external power connections are connected properly to the contactless unit, and all external devices (see [Connecting Unit to a Controlling Device](#)).
- If the problem persists, contact your local VeriFone representative.



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QX700 Certifications and Regulations

Electrical

The reference input power rating for the QX700 is 8V to 43VDC, 450mA max.

Location – Electrical Considerations

Do not install this device near electrical appliances or other devices that cause excessive voltage fluctuations or emit electrical noise (for example: air conditioners, neon signs, electric motors, high-frequency or magnetic security devices).

WARNING! This device contains sensitive electronic components that can be permanently damaged if exposed to excessive shock, electrical interference or vibration.

Equipment

Repairs

Do not, *under any circumstances*, attempt any service, adjustments, or repairs on this equipment. Instead, contact your local VeriFone distributor or service provider for assistance. Failure to comply may void the product warranty.

Damage

Carefully inspect the shipping carton and its contents for any damage. If the QX700 or any product component appears damaged or tampered, immediately notify the shipping company and your VeriFone distributor or service provider.

Do not use a device that has been damaged or tampered with.

Cleaners and Solvents

Never use thinner, trichloroethylene, or ketone-based solvents to clean the device — they may deteriorate the plastic and rubber parts. For best results, use a clean cloth dampened with water and mild soap. To remove stubborn stains, use alcohol or an alcohol-based cleaner.

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 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.

FCC Compliance

The following product has been tested and certified as compliant with the regulations and guidelines set forth in Part 15 of FCC Rules:

Manufacturer: VeriFone, Inc.
 Brand, Model: QX700

Part 15 of FCC Rules

This device complies with the limits for a Class B digital device as specified in Part 15 of FCC Rules which provide reasonable protection against harmful interference in a residential area.

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.

This equipment generates and uses 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.

In the unlikely event that there is 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:

- 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 with the dealer or ask an experienced radio/TV technician for help.

Any changes or modifications to this equipment not expressly approved by VeriFone could void the user's authority to operate this equipment. The antenna(s) used for this transmitter must not be co-located or operating in conjunction with any other antenna or transmitter. Use of a shielded interface cable is required to comply with the Class B limits of Part 15 of FCC Rules.

RF Exposure

This device was verified for RF exposure. To comply with Council Recommendation 1999/519/EC, IC RSS-102, and FCC RF exposure requirements, a minimum separation distance of 20 cm must be maintained between the user's body and the device, including the antenna. Any metallic components should be far from this device. Conditions that do not meet these requirements may not comply with Council Recommendation 1999/519/EC, IC RSS-102 and FCC RF exposure requirements and should be avoided.

To comply with the FCC RF exposure compliance requirements, make sure to use only the antenna that is included with the device. This device and its antenna must not be in the same location or operating in the same area in conjunction with any other antenna or transmitter.

Legal Terms and Conditions Regarding PCI SSC Approvals

PCI SSC's approval only applies to PEDs that are identical to the PED tested by a PCI Security Standards Council recognized laboratory. If any aspect of the PED is different from that which was tested by the laboratory - even if the PED conforms to the basic product description contained in the letter, then the PED model should not be considered approved, nor promoted as approved. For example, if a PED contains firmware, software, or physical construction that has the same name or model number as those tested by the laboratory, but in fact are not identical to those PED samples tested by the laboratory, then the PED should not be considered or promoted as approved.

No vendor or other third party may refer to a PED as "PCI Approved," nor otherwise state or imply that PCI SSC has, in whole or part, approved any aspect of a vendor or its PEDs, except to the extent and subject to the terms and restrictions expressly set forth in a written agreement with PCI SSC, or in an approval letter. All other references to PCI SSC's approval are strictly and actively prohibited by PCI SSC.

When granted, an approval is provided by PCI SSC to ensure certain security and operational characteristics important to the achievement of PCI SSC's goals, but the approval does not under any circumstances include any endorsement or warranty regarding the functionality, quality, or performance of any particular product or service. PCI SSC does not warrant any products or services provided by third parties. Approval does not, under any circumstances, include or imply any product warranties from PCI SSC, including, without limitation, any implied warranties of merchantability, fitness for purpose or noninfringement, all of which are expressly disclaimed by PCI SSC. All rights and remedies regarding products and services, which have received an approval, shall be provided by the party providing such products or services, and not by PCI SSC or the payment brand participants.

This equipment operates on a secondary basis. It is not entitled to protection from harmful interference, even for stations of the same type, and may not cause interference to systems operating on a primary basis.

QX700 Certifications and Regulations

VeriFone Part Number: DOC139-001-EN-A Revision A.7



Recycling: DO NOT DISCARD!

UNIT MUST BE RECYCLED OR DISPOSED OF PROPERLY
 For proper disposal instructions go to <http://recycle.verifone.com> Please retain this sheet for future reference.

continued on rear cover



QX700 Declaration of Conformity

DECLARATION OF CONFORMITY

according to ISO/IEC Guide 22 and EN 45014

Manufacturer's Name VeriFone, Inc.
Manufacturer's Address VeriFone, Inc.
1400 West Stanford Ranch Road
Suite 200, Rocklin, CA 95765 USA

Declares, that the product

Model Number: QX700
M139-XXX-XX-XXX
Product Options: All

Conforms to the following product specifications according to R&TTE directive 1999/5/EC:

Safety: IEC 60950-1:2005+A1:2009
EN 60950-1:2006+A11:2009+A1:2010+A12:2011

EMC: EN 55022:2010 (Class B)
EN 55024:2010
EN 61000-3-2:2006+A1:2009+A2:2009
EN 61000-3-3: 2008
EN 301 489-1 V1.8.1 (2008-04)
EN 301 489-3 V1.4.1 (2002-08)

RFID: ETSI EN 302 291-1 V1.1.1 (2005-07)
ETSI EN 302 291-2 V 1.1.1 (2005-07)

SAR: EC Recommendation 1999/519/EC

Supplementary Information:

We hereby declare that this device complies with the requirements of the Low Voltage Directive 2006/95/EC, the EMC Directive 2004/108/EC, the R&TTE directive 1999/5/EC, the WEEE directive 2012/19/EU, the RoHS directive 2011/65/19/EU and carries the CE Mark Directive (93/68/EEC) accordingly.

Dated: December 7, 2012

Brad McGuinness
Vice President, Product Development
Rocklin, CA, USA



European contact for regulatory topics only:

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