EPC4 Quick Reference Guide
Graphical Overview

Front View

Rear View

Accessories Included

1 - 6ft (2m) Power Cable 90°
(U.S. Models Only)

1 - 15ft (5m) Network Cable

Recovery Utility

Pressing the Recovery Button on the rear of the unit will cause the EPC4 to boot to its Recovery Mode. This operation will automatically run a check disk process to attempt to resolve any problems with the disk or file system and then reboot into Normal Mode. A log of any changes will be created by the check disk process.
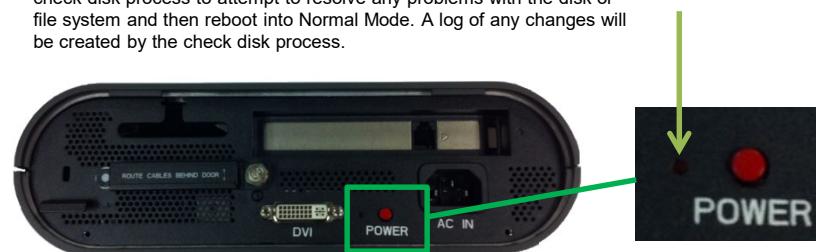

Open Enclosure To Access Internal IO Ports

• To open enclosure, pull / push enclosure open latch toward the front IO.
• While the open enclosure latch is in the forward position, separate bottom and top housing.

Front Panel Buttons and LED's

1 – LCD Display
2 – LCD Display Control: NEXT
3 – LCD Display Control: SELECT

4 – Power LED
  Solid Red = AC plugged in but not powered on
  Solid Blue = Booting
  Solid Green = After boot up
5 – Status LED
  Solid Red = Initial
  Solid Green = After boot up
6 – HDD LED
  Blinking Blue = Activity
7 – Network 1 LED
  Blinking Orange = Activity
8 – Network 2 LED
 Blinking Orange = Activity

Back Panel Buttons and Ports
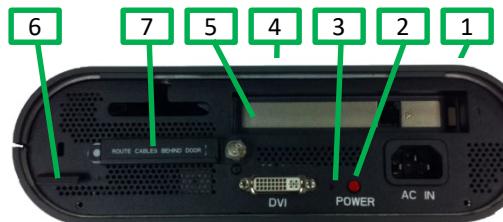
1 – Power Socket 110-220V 50-60Hz
2 – Power On/Off Button
3 – Recovery Utility Button
4 – DVI Port *
5 – PCI-e Slot (Modem Optional)
6 – Lock Latch
7 – Cable Retention (Cables must route behind door to be retained)

* Note: The DVI port should only be used for setup, maintenance and troubleshooting. It is not intended for use during normal operation.

Internal Ports and Slots
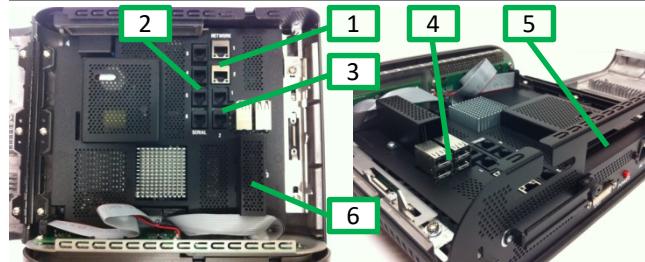
1 – 2x Network LAN 10/100/1000 Port, not powered
2 – 4 x Serial Port RS232
3 – 2x Powered Serial Ports RS232 +12V/500mA each on RTS
4 – 4 x USB Ports +5V/500mA each
5 – PCI-e Expansion Slot
6 – SSD, MO-297 SATA 3.0Gb/s

Lock / Secure Enclosure

• With EPC4 enclosure closed, pull out lock latch until "Locked" is displayed
• Use one of the following to secure the device
• Standard Pad lock with a bolt diameter no less than .200" and no greater than .280"
• Tamper Evident Zip Tie
• Kensington Lock
• Ensure Kensington lock is inserted through the rear IO and into the Lock Latch

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Technical Overview

EPC4 Product Highlights

### Thank you for purchasing the EPC4!

The EPC4 electronic payment controller utilizes a next generation Intel® Atom™ Dual Core Processor which offers great performance with low power consumption for a more reliable design. Product highlights include:

- Robust lockable enclosure with internal I/O ports for enhanced security
- Dual core CPU, DDR3 RAM , & SATA SSD storage provide fast transaction processing
- Solid state design for maximum reliability and silent operation
- Industry standard connectivity including 4 x USB , 4 x serial, and 2 x powered serial
- 2x20 LCD display and front panel LEDs for easily determining device status
- Integrated universal power supply saves space and simplifies installation
- Dual Gigabit Ethernet ports for further isolation of credit network from store network
- PCI-e expansion slot for optional dial-up modem or other expansion
- Optional mounting bracket with quick release and padlock features

Optional Accessories
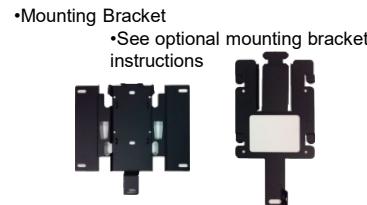
- Mounting Bracket
  - See optional mounting bracket instructions
- PCI-e Expansion Riser Card
  - See optional PCI-e expansion usage instructions
- Modem
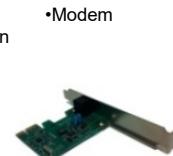
Optional PCI-e Expansion Usage
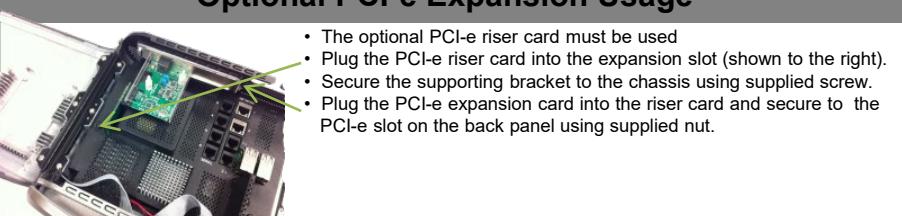
- The optional PCI-e riser card must be used
- Plug the PCI-e riser card into the expansion slot (shown to the right).
- Secure the supporting bracket to the chassis using supplied screw.
- Plug the PCI-e expansion card into the riser card and secure to the PCI-e slot on the back panel using supplied nut.

Basic Troubleshooting

Problem	Suggestions
The unit will not power on	• Check to make sure the power cord is firmly plugged in to both the EPC4 and AC power outlet. • Press and release the power button to turn the EPC4 on. Do not hold the power button down longer than one second. The power button is located on the back panel. • Plug a different device into the A/C outlet to confirm the outlet is powered.
No network connectivity	• Check to see if the network cable is firmly plugged in to both the EPC4 and network outlet. • Check for network link on the front panel. The amber Network LED is illuminated when the link is active. • Check network settings to make sure they are configured correctly.

Support Information

### Visit NCR on the World Wide Web
• http://www.ncr.com

Optional Mounting Bracket Usage and Installation

Install the enclosure bracket to the EPC4 using 4 x of the supplied screws. Orientation of bracket will be dependant on desired orientation of EPC4.

Follow the instructions given below to ensure the safe mounting of the EPC4 bracket on either a wall or under a counter.

- The AC outlet should be installed near the EPC4 and be easily accessible.
- Appropriate Hex or Philips head screw driver is required to seat screws. Electric screw driver and applicable drill bits are required to create pilot holes for either screw or wall anchor.
- **Wall Mounting**
  - Secure wall mount bracket to a wall in the orientation shown to the right
  - If there are no studs available, then mount the bracket with four (4) ¼" diameter, 2 ¼" length hollow wall anchors.
  - If there is a stud, then one vertical pair of mounting holes should be mounted to a stud with ¼" diameter, 2" length wood screws. The other hole pair should be mounted with hollow wall anchors.
- **Under Counter Mounting**
  - Use caution mounting under a counter top not to penetrate the surface. Do not mount to metal counters, or if the thickness of the material is less than 1 inch.
  - Use four (4) ¼" diameter, 1" length wood screws.
- **Special notes about power supply cord when mounting the EPC4 under the counter or on walls:**
  - The plug serves as the disconnect.
  - Cord shall NOT be attached to the wall or any building structure.
  - Cord must not pass through walls, ceilings, floors, or similar openings in the building structure.
  - Route cord away from any edges that can damage the cord.
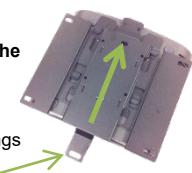
Attach the EPC4 with enclosure bracket to the wall bracket as shown (Note: Optional locking feature on wall bracket)

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Essential Safety Precautions

- To avoid a possibility of electrical shock, be sure to connect the power cord to the EPC4 before connecting it to the A/C power outlet.
- A fire or electrical shock may result if the voltage used with the EPC4 is beyond the specified range.
- Voltage and frequency rating: 100V – 240V AC, 60 – 50Hz, 2A.
- To prevent a possible explosion, do not install the EPC4 in areas which contain flammable gases.
- Do not cover or install the EPC4 in an enclosed space.
- The EPC4 is not water resistant and should not be installed in areas where it may be exposed to water or other moisture.
- Use only 26AWG telecommunication line cord when connecting the optional modem.
- The operating temperature range of this device is 32 to 122 F (0 to 50 C). Do not operate the device if the ambient temperature is not within this range.

IT Power System
The NCR EPC4 terminals are suitable for connection to an IT power system with a phase-to-phase voltage not exceeding 240 V.

This device is not intended for use as a workstation.
Cet appareil n'est pas destine à servir d'ordinateur de travail.
Dieses Geräte kann nicht als Arbeitsplatz verwendet werden

Servicing
Warning: This product does not contain user serviceable parts. Servicing should only be performed by a qualified service technician.

Attention: Ce produit ne contient pas de components reparable par l'utilisateur. Le service ne doit être fait que par un technicien qualifié.

Warnung: Dieses Produkt enthält keine verbrauchbaren Teile. Service nur durch einen qualifizierten Fachmann.

Fuse Replacement
Warning: For continued protection against risk of fire, replace only with the same type and ratings of fuse.
Attention: Pour prévenir et vous protéger contre un risque de feu, remplacer la fusible avec une autre fusible de même type, seulement.
Achtung: Gegen schutz vor feuer; ersetzen sie nur sicherungen der selben art und wertung

Power Supply Cord Used as Disconnect Means
Warning: The power supply cord is used as the main disconnect device. Ensure that the socket outlet is located/installed near the equipment and is easily accessible.
Attention: Le cordon d'alimentation est utilisé comme interrupteur général. La prise de courant doit être située ou installée à proximité du matériel et être facile à acceder.
Warnung: Der Stromstecker sollte nahe dem Geräte installiert sein und sollte leicht zugänglich sein.

AC Power Cord Usage
The attached power cord should only be used with this device. It must not be used with any other device.

Connecting to an AC Source
See the AC requirements in the *Site Preparation Guide* before connecting to the AC supply.
Voir les exigences de courant alternatif dans le Guide de Préparation de Site avant le fait de raccorder aux réserves de courant alternatif.

Lithium Battery Warning
Warning: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type as recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.
Attention: Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type recommandé par le constructeur. Mettre au rebute les batteries usagées conformément aux instructions du fabricant.
Warnung:: Gefahr von Explosionen wenn die Batterie falsch eingelegt wird. Ersetzen Sie nur mit gleichen oder gleichwertigen Batterien wie vom Hersteller empfohlen. Entsorgen Sie die Batterien wie vom Hersteller empfohlen.
Battery Disposal (Switzerland)
Refer to Annex 4.10 of SR814.013 for battery disposal.

Peripheral Usage
This terminal should only be used with peripheral devices that are certified by the appropriate safety agency for the country of installation (e.g. UL, CSA, TUV, VDE) or those which are recommended by NCR Corporation.

Ce terminal devrait être utilisé avec les mécanismes périphériques qui sont certifiés par l'agence appropriée pour le pays d'installation (UL, CSA, TUV, VDE) ou ceux recommandés par la NCR Corporation. Dieses Terminal sollte nur mit peripheren Geräten benutzt werden die von der geeigneten Sicherheitsagentur für das Land in dem es installiert wird (UL, CSA, TUV, VDE) oder jenen die von der NCR empfohlen werden, angeschlossen werden.

Warning: DO NOT connect or disconnect a printer, keyboard, or any other terminal-powered peripheral while the terminal is powered on. Doing so may result in peripheral or system damage.

System Weight Considerations for Wall or Ceiling Mounted Equipment

Warning: NCR EPC4 terminal must be mounted securely to prevent a hazard. They must be installed in accordance with local building codes. The location where the unit is installed should be able to withstand four times the weight of the unit
Attention – Le NCR EPC4 doit être installer précautionneusement afin d'éviter tout accident éventuel. Il doit être installé dans le respect des codes de l'établissement.
Warnung: Der NCR EPC4 muss sicher montiert werden um Gefahr zu verhindern. Es muss in Übereinstimmung mit den örtlichen Bauvorschriften installiert werden.

Grounding Instructions
Warning: Grounding circuit continuity is vital for safe operation of the machine. Never operate the machine with the grounding conductor disconnected.
In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This product is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances. Do not modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal. Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if you are in doubt as to whether the product is properly grounded. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the product's plug.
Repair or replace damaged or worn cords immediately.

Instruction pour Conducteurs
Attention: Assurer la continuité du circuit est essentiel pour un déroulement sécurisé des machines. Ne jamais opérer les machines avec les conducteur de terre débranchés.
Au cas d'un mauvais fonctionnement ou d'une panne, le conducteur de protection offre une alternative de résistance au courant électrique, permettant de réduire le choc. Ce produit est équipé d'un câble électrique et d'un conducteur de protection et d'une prise de terre. La prise doit être branchée à un distributeur correspondant et installé en accord avec les réglementations locales. Ne pas modifier la prise fournit, elle ne fonctionnera pas avec le distributeur et veuillez vous assurer que le distributeur est installé par un technicien qualifié. Un mauvais branchement de l'équipement ou du conducteur de protection peut provoquer l'électrocution. Le conducteur avec l'isolement possède une surface externe qui est verte avec ou sans rayures jaunes est l'équipement de protection du conducteur. Au cas ou une réparation ou le remplacement d'un des câbles serait nécessaire, veuillez ne pas brancher l'équipement de protection du conducteur au terminal actif. Vérifiez qu'un électricien qualifié ou un membre du personnel s'en charge si les instructions ne sont pas parfaitement comprises. Utilisez une extension de trois câbles de prise terrienne et trois pôles de réceptions qui sont compatibles avec la prise. **Réparer ou remplacer immédiatement tout câble endommagé.**

ERDUNGSANWEISUNGEN
Warnung: Im Fall einer Funktionsstörung oder eines Zusammenbruchs stellt die Erdung einen Pfad des niedrigsten Widerstandes für elektrische Strömung zur Verfügung, um das Risiko des Elektroschocks zu reduzieren. Dieses Produkt ist ausgestattet mit einer elektrischen Schnur die eine Geräteerdungsletung und einen Erdungsstecker. Der Stecker muss in einer dazugehörigen Steckdose, die geerdet ist, nach den örtlichen Voraussetzungen, eingesteckt werden. Ändern Sie nicht den Stecker- sollte der nicht in die Steckdose passen, installieren Sie eine angemessene Steckdose durch Ihren Elektriker. Ein falscher Anschluß der Geräteerdungsleitung könnte einen elektrischen Schock verursachen. Die Leitung, die isuliert ist , ist auf der Oberfläche grün mit oder ohne gelbe Streifen und ist die Erdung. Muss die Leitung oder der Stecker repariert oder ersetzt werden, verbinden Sie nicht die Erdung des Gerätes zu dem Terminal, das in Betrieb ist. Überprüfen Sie mit einem Elektriker oder einem Serviceangestellten, wenn Sie die Erdungsanweisungen nicht verstehen, oder wenn Sie bedenken haben, dass das Gerät nicht richtig geerdet ist. Verwenden Sie nur Kabel mit 3 Adern, die eine drei-Stift Erdung haben , und drei Pole, die den Stecker des Produktes einnehmen.
Reparieren oder ersetzen Sie beschädigte oder verbrauchte Kabel sofort.

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Essential Safety Precautions

Environmental Consciousness
NCR is demonstrating its concern for the environment by designing an intelligent power management system into this terminal that operates efficiently whether the system is in a stand-alone or network environment. Do not discard the unit or its parts (e.g. batteries) with general household waste; recycle or dispose in accordance with your local regulations.

State of California Perchlorate Material Notification
 Perchlorate Material — special handling may apply.
See: *http://www.dtsc.ca.gov/hazardouswaste/perchlorate*
The lithium coin cell batteries in this product contain Perchlorate and are subject to the State of California's Best Management Practices (BMP) Regulations for Perchlorate Materials. Please visit the above website for more information.

Federal Communications Commission (FCC)
This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause interference in which case the user will be required to correct the interference at his own expense. NCR is not responsible for any radio or television interference caused by unauthorized modification of this equipment or the substitution or attachment of connecting cables and equipment other than those specified by NCR. The correction of interference caused by such unauthorized modification, substitution or attachment will be the responsibility of the user. The user is cautioned that changes or modifications not expressly approved by NCR may void the user's authority to operate the equipment.

Canadian Department of Communications
These digital apparatuses are Class A digital apparatuses that comply with Canadian ICES-003. These digital apparatuses do not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications. Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada. Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le règlement sur le brouillage radioélectriques édicté par le ministère des Communications du Canada.

International Radio Frequency Interference Statement
Warning: NCR EPC4 Terminal is a Class A products. In a domestic environment these products may cause radio interference in which case the user may be required to take adequate measures.

Declaration of Conformity
Manufacturer's Name   NCR Corporation
Manufacturer's Address NCR Corporation
Hospitality Division – Atlanta
2651 Satellite Boulevard
Duluth, GA 30096-5810
Type of Equipment   Information Technology Equipment— Electronic Payment Controller
Model Number   1646

NCR Corporation, 3097 Satellite Boulevard, Duluth, GA 30096, USA, declares that the equipment specified above conforms to the referenced EU Directives and Harmonized Standards.

EU Directive Harmonized Standard (s)
2004/108/EC
EN 55022: 1998 + A1: 2000+ A2:2003
EN 55024: 1998 + A1: 2001+ A2:2003
EN 61000-3-2: 2000 + A2: 2005
EN 61000-3-3: 1995 + A1: 2001 + A2: 2005
2006/95/EC (Low Voltage)
EN 60 950-1; 2006/A11:2009
EN 60 825-1; 2007