Introduction
Ingenico’s iPP300 secure electronic payment devices include the iPP320 and the iPP350. Each device consists of the following:

- 2.7” graphical monochrome LCD display (iPP320)
- 2.1” TFT color VGA display (iPP350)
- Bi-directional magnetic stripe reader
- Smart card reader
- ADA-friendly keypad
- PIN privacy shield (field-installable)
- Integrated contactless card reader

For details on these features, see the Specifications section in this document.

Device Installation
The installation procedure includes:

- Selecting the device location
- Connecting the device
- Connecting an interface cable and power supply (if required)
- Attaching the PIN privacy shield (if desired)

Each step is described in the sections that follow.

Box Contents
Carefully inspect the carton and contents for any shipping damage. If the device is damaged, file a claim immediately with the shipping company and notify your device provider.

1. Remove the contents from the box. You should have:
   - iPP300 terminal
   - This guide
   - Connection cable or i3070 cable adapter
   - Power supply (if required)
   - PIN privacy shield (optional)
   - 3 x m2.5 screws (optional)
   - Application User Guide (optional)
   - Application User Guide (optional)

2. Save the carton and packing material for re-packaging or moving/shipping the device in the future.

Selecting the Device Location
The iPP300 may be mounted on a flat surface or customer stand (recommended). Ingenico recommends physically securing the device to avoid theft. For additional anti-theft security, attach a Kensington Locking cable (or similar device) to the key lock slot on the left side of the device.

Power may be provided from a host Point of Sale (POS) system or from an Ingenico power supply. If using an Ingenico power supply, the device must be placed close to an easily-accessible power outlet.

Do not place the iPP300 on a PC monitor, adjacent to an electronically active security tag deactivation system, or near other sources of magnetic fields.

The iPP300 must be at least 12 inches away from an electronically active security tag deactivation system, or near other sources of magnetic fields. Use of non-Ingenico power supplies may result in damage. Damage of this type is not covered by warranty.

Connecting the Terminal
Do not connect power to the iPP300 device until instructed to do so.

Use the provided cable or adapter to connect your device. If using an i3070 cable adapter, existing i3070 communication cables can be used.

1. Place the iPP300 device in front of you with the bottom of the unit facing up. Be careful not to place the device on a surface where the device can be scratched or damaged.
2. Pull the cable’s retraction handle up on the device’s HDMI connector end of the cable as shown in figure 1 below.
3. Place the cable connector in the port and push firmly in place.

Cables and power supply
Refer to your equipment provider or Ingenico representative for details of appropriate cables and power supplies available. Only Ingenico recommended cables may be used. Use of non-Ingenico accessories may result in damage and void any warranty.

Connecting a Power Supply
Use only an Ingenico-provided power supply where a separate DC power supply is required. If the device is powered directly from a POS, power may be provided via the USB port (power through the USB 2.0 port is rated at 5V, 500mA).

Use of non-Ingenico power supplies may result in damage. Damage of this type is not covered by warranty.

1. If your device came with a power supply, plug the power supply connector into the jack on the interface cable as shown in figure 2 below.
2. Plug the power supply into a power outlet. The iPP300 will self-initialize when power is applied.

Attaching the PIN Privacy Shield (Optional)
A PIN privacy shield may be provided for optional use. To attach the PIN privacy shield, do the following:

1. Remove the protective film from the graphical display screen.
2. Align the hook-end of the PIN privacy shield into the slots on the outside bottom edges of the keypad (near the [Cancel] key and the green [Enter] key).
3. Push the PIN privacy shield down onto the device to secure it. The device can be used immediately, but avoid undue strain on the PIN shield for 24hrs to allow the adhesive tape to fully cure.

Using a Smart Card
When the application prompts the cardholder for a smart card, the smart card logo will illuminate. Insert the smart card into the slot on the front of the device with the chip facing up and towards the slot. Green lights located on top of the smart card reader slot, under software control, can prompt the cardholder when to insert or remove a card.

It is necessary for the card to remain in the reader slot until the application indicates that it can be removed.

For a magnetic stripe card, the keypad can also be programmed to illuminate under application control.

Using a Contactless Card
The iPP300 contactless card reader reads contactless payment cards. When prompted, hold the contactless payment card close to the active zone around the display. A series of green lights will illuminate on top of the device when the contactless card has been read.

Cables and Power Supply

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<tr>
<th>Part #</th>
<th>Description</th>
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<tr>
<td>296-111-328</td>
<td>PIN privacy shield (optional)</td>
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* Contactless reader capability is Optional on early PCIPTS V2 and V3 models.

Operations
Powering On
After you apply power to the iPP300 device, the device is ready for use. The iPP300 device may be left on indefinitely, or may be disconnected from power as necessary.

Restarting the Device
To restart the terminal, press the yellow [Clear] key and [9,1] simultaneously. Alternatively, disconnect and reconnect the device’s power source.

Using a Magnetic Stripe Card
The iPP300 device’s magnetic stripe reader reads debit, credit, and all standard magnetic stripe cards. When the application prompts for a magnetic stripe card, the magnetic stripe logo on the top upper right side of the device illuminates. Be sure the magnetic stripe side of the card is facing toward the iPP300 graphic display screen. Slide the card in any direction. For best results, slide the card in a continuous motion.
Troubleshooting

Magnetic Card Reader Does Not Work Properly
1. Slide the card through the magnetic stripe reader as described in Swiping a Magnetic Stripe Card.
2. Swap the card to a faster or slower speed.
3. Swap the card in a different direction.
4. Inspect the magnetic stripe on the card to make sure it is not scratched or badly worn.
5. To determine if there is a problem with the card:
   a. If your host device (POS) has a magnetic stripe reader, try swiping the card there.
   b. If you have another working IPP300 device, try swiping the card there.
6. If there is still a problem, contact your Help Desk.

No Information Visible on Screen
1. Make sure that the IPP300 cable connector is fully inserted into the back of the device.
2. Restart the device (see Restarting the Device above).
3. Unplug the device and examine the connector's pins. If there are any pins that are bent, or if other damage is visible, replace the cable or adapter.
4. If you have another working IPP300 device, swap the devices to determine if the problem is with the device, cable, PDU, PC, or power supply.
5. Rest the host by turning it off and back on again.

Specifications

Processors: Main Processor RISC 32-bit ARM5, 450 MIPS. Integrated Crypto Processor RISC 32-bit ARM7, 30 MIPS.
Operating System (OS): Telium 2 with HTML GUI.
Display: IPP320: graphical monochrome LCD, resolution of 128 x 64. IPP350: graphical active matrix LCD, resolution of 128 x 64.
Weight (without PIN privacy shield and cable): 390 g.
Dimensions (without PIN privacy shield): 192 x 85 x 25 mm.
Weight (with PIN privacy shield and cable): 460 g (269 g).
Memory: 64 MB SDRAM, 128 MB Flash.
Keypad: 9 keys including four (4) function keys; raised markings, ADA-friendly. White backlit.
Backlight: 3:00 AM: 3:30 AM.
Buzzer: 65 dB at 1 meter.
Communications: HOST port: RS-232, USB, Ethernet (TCP/IP).
Dimensions (without PIN privacy shield): 6.7 x 3.3 x 1.6 inch 171 x 84 x 41 mm.
Weight (without PIN privacy shield and cable): 9 oz (257 g).
Face Plate Standard Color: Ingenico gray.
Magnetic Stripe Card Reader: Bi-directional magnetic stripe card reader, triple track. Magnetic Stripe logo illuminates.
Card Reader: EMV L1 and L2 certified – meets EMV levels 1.0 and 4.0 specifications. Complies with ISO 7816-1/2/5. Smart card icon illuminates.
Contactless: Integrated contactless card reader.
Supports ISO 14443 A/B, MIFARE Classic, MIFARE DESFire.
* Please Note: Contactless reader capability is Optional on early PC/PS2 models. PC/PS2 PC/PS4 PC/PS4 models.
PCTP V4 PC/PS2 models.
PCTP V4 approved models are supplied with contactless capability as a standard feature.
Power: Powers via USB (rated at 5V, 500 mA). Unit can also be powered from a RS-232 or Ethernet cable with an appropriate power supply. Power via Ethernet is supported on selected models only. Contact your Ingenico representative for details on specific model numbers.
Safety: UL/CUL 60951-1.
Security: PC/PS2 v2 and Intermec (Canada).
RFID: ICC and FPC: Part 15B and Part 15C.

Environmental Requirements

The device is designed to operate in the following environments:
1. Operating temperature of 41°F to 113°F (+5°C to +45°C)
2. Operating humidity of 5% RH (non-condensing) at 113°F (+45°C)
3. Storage temperature of -4°F to 180°F (-20°C to +80°C)

Security

Your device fulfills current applicable PC/PS2 security requirements. Physical (anti-theft) security can be enhanced by the use of a Kensington Locking cable (or similar device) attached to the key lock slot.

You should be strongly advised to ensure that privileged access to your device is only granted to staff that have been independently verified as being trustworthy.

Security Assurance

Perform the following tasks daily to ensure the security and compliance of your device:

Checking the Device’s Integrity

Ensure that no attempts have been made to tamper with the device, using the following method:
1. Check the device and ensure that there is NO external damage, particularly around the keypad, display, and card reader areas.
2. Ensure the keypad is firmly in place.
3. Ensure there are NO additional cables protruding from the device or associated equipment.
4. Ensure there are NO holes drilled into the device’s housing.

Alert! (Attention)

1. Your IPP300 device detects any tampered state.
2. In this state the device will repeatedly flash the message “Alert! Alert” and further use of the device will not be possible.
3. If you have the “Alert! Alert” message, you should contact your helpdesk immediately.

Note on PCI PTS v4 (PC/PS2) models.
PC/PS2 PC/PS4 models.
PCTP V4 security requirements stipulate that the terminal must reboot at least once every 24 hours. If the reboot is not initiated through the connected device within 24 hours, the terminal will automatically reboot. Please refer to the relevant application guide for further information.

Checking the Installation Site

1. Ensure that there are NO security cameras focusing on the device.
2. Ensure that there are NO holes drilled into the device’s housing.
3. Ensure the device cannot be observed from outside (any window or door opening) during customer transaction.

Lithium Battery

The IPP300 is fitted with a lithium battery which is not accessible to the user.

Customer Service

If you need repair facilities may open the unit for any reason. To request an RMA for return and repair of a defective unit please e-mail the appropriate customer support department per below.

Customer Service – USA
Customer Service – Canada

FAQ

Any liquid spill on or around the device must be removed immediately.

Compliance

U.S. Federal Communications Commission Warning

FCC standard compliance marks certifying that the product stipulated here: IPP300-XXXXXXX conforms to the following harmonized standard: part 15 subpart B of the FCC rules. This class B (digital apparatus) complies with Canadian ICES-003.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection 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 interference by one or more of the following measures:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment to 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.

Industry Canada Warning

This digital apparatus does not exceed the class B limits for radio noise emissions from digital apparatus as set out in the Radio Interference Regulations of Industry Canada.

Tested to Industry Canada ICES-003 standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Ingenico Inc.
3625 Windsor Plaza, Alpharetta, GA 30005.
Tel: +1.678.456.1200 Fax: +1.678.456.1201
http://www.ingenico.ca

Ingenico Canada, Inc.
5180 Osborne Drive, 2nd Floor, Mississauga, Ontario, L4W 5L9
Tel +1.905.212.9955 Fax: +1.905.212.9955
http://www.ingenico.ca

Note: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Installation and Quick Reference Guide

iPP300

- IPP320 (with PIN shield)
- IPP350 (without PIN shield)