

**PORTABLE TERMINAL**  
**FD-400TiC**  
**INSTALLATION GUIDE**



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**Warning:** If the device, FD400TiC, is used without the detachable privacy shield, the following criteria needs to be met by the Installed Environment of the PED for complying with the PCI privacy screen design requirement:

- A. Positioning of the PED on the check-stand in such way as to make visual observation of the PIN-entry process infeasible.
  - Visual shields designed into the check-stand.
  - Position the PED so that it is angled in such a way to make PIN spying difficult.
- B. Pop-up (temporary) privacy shield attached to the PED mounting stand. Consumer (through education & prompting) or merchant would put the shield in place during PIN entry.
- C. Installing PED on an adjustable stand that allows consumers to swivel the terminal sideways and/or tilt it forwards/backwards to a position that makes visual observation of the PIN-entry process difficult.
- D. Positioning of in-store security cameras such that the PIN-entry keypad is not visible.
- E. Instructing the cardholder regarding safe PIN-entry, done with a combination of:
  - Signage on the PED.
  - Prompts on the display, possibly with a "click-through" screen.
  - Potentially literature at the point of sale.
  - A logo for safe PIN-entry process.

**Table A1: Matrix of Observation Corridors and PIN Protection Method**

Method	Observation Corridors				
	Cashier	Customers in Queue	Customers Elsewhere	On-Site Cameras	Remote Cameras
PED Stand A	M	H	L	L	L
PED Stand B	H	H	H	L	M
Check-Stand A	L	M	M	L	H
Check-Stand B	H	H	M	H	H
Customer Instruction	H*	H*	H*	H*	H*

- Customer Instruction methods are less repeatable and therefore should be used in combination with other methods. L = low, M = medium, H = high.

## 1. BEFORE STARTING

There are two holes under a plastic cover on the left side of terminal (Figure 1). One is a power jack; the other is an USB programmable port (Figure 2). Rechargeable battery is on the back side of terminal (Figure 3).

- Adapter spec:  
DELTA\_ADP-36JH B  
**Input:** 100-240Vac, 50/60Hz 1A **Output:** 12Vdc, 3A
- Operating Temperature: 0°C to 40°C
- Battery pack: CHENG UEI / FD400 7.4V, 2.3Ah
- RTC battery spec: 3V, CR2032

**Caution:** The cover (Figure 3) shall be provided with a means to keep it closed during normal operation.

**Caution:** Risk of explosion if the battery is replaced by an incorrect type. Please dispose of used battery according to the instructions.

**Warning:** A shielded-type power cord is required in order to meet FCC emission limits and also to prevent interference to the nearby radio and television reception. It is essential that only the supplied power cord be used.

## 2. POWER ON THE TERMINAL

Install the battery, or plug the power cord into the power jack and plug the power adapter into a 120-volt electrical outlet or into a surge suppressor (recommended) after the power cord is connected to the power adapter. Press the power button at the front of device (Figure 4) until the system is booted up.

## 3. LOADING THE PAPER

Gently pop the printer cover's latch to open the cover (Figure 5); then lift the cover.

Load a roll of thermal paper (Appleton 1012 recommended) into the printer (Figure 6). Load it so that the print-side of the paper will feed out facing the operator.

Close the cover by pressing down evenly on both side tabs, or by pressing on the center of the printer cover.

Use the serrated bar to tear off any excess paper.

## 4. INSTALLING THE SIM CARD

SIM slots are located above the battery charger. Before insert the SIM card, please turn off the device and remove the cover by loosen the two screws (Figure 7).

Push one SIM gate leftward (Figure 8), open it and insert the SIM card in the slot. Make sure that the card is located correctly (Figure 9). Close the SIM gate and pull rightward to lock it. Finally, Screw the cover back.



Figure 1



Figure 2



Figure 3

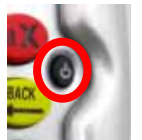


Figure 4



Figure 5



Figure 6



Figure 7



Figure 8



Figure 9

## 5. USING THE MAGNETIC CARD READER

Find the reader slot in the middle of surface. Swipe card through slot from left to right or the opposite direction with stripe lies down and facing the display (Figure 10).



Figure 10

## 6. USING THE CONTACTLESS CARD READER

Contactless reader antenna is around the display and PIN pad. It will light up with blue color signal when FD400TiC is powered on and that means reader is working normally.

Put contactless card to approach the antenna of card reader (Figure 11) for reading the card data during transaction.



Figure 11

## 7. USING THE KEY PAD

To enter numbers or letters, simply press the appropriate key. For example, to type the letter A: Press [ALPHA], then [A] (the Void key) (Figure 12).



Figure 12

**Caution:** Use only shielded signal cables to connect I/O devices to this equipment. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

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.

### Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class A 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 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 Caution:** Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

### IMPORTANT NOTE:

#### FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

#### Industry Canada Statement

This device complies with RSS-210 of the Industry Canada Rules. 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

Ce dispositif est conforme à la norme CNR-210 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes:

- (1) le dispositif ne doit pas produire de brouillage préjudiciable, et
- (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

### IMPORTANT NOTE: IC Radiation Exposure Statement:

This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

### NOTE IMPORTANTE: (Pour l'utilisation de dispositifs mobiles)

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

**Warning:** This is a Class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.