



SCC Quick Start Guide: P2-400 SCC Setup

DCV-00617 S2 R01

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S2 Security Level Guide

No restrictions apply: customer facing document



Release History

Version	Prepared by	Date	Change description
0	Shibani Joshi	2021 Aug 17	Created documentSP
1	Michael Doh	2021 Sep 15	Revised wiring connections

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This guide covers how to install and configure a Secure Contactless Controller (SCC) in a G7-100 terminal. The SCC is also known as a G7 Smart NFC Puck.

1.1 SCC Overview

The SCC is a standalone peripheral with the antenna and contactless reader combined into one entity.

It is designed to replace the existing NFC antenna component in a G7-100 terminal and is compatible with all variations of the G7 family of products. It can be retro-fitted in the field and, once installed, has its own anti-removal tamper protection.

To meet current security standards, the SCC supports EMV Contactless v3.0 and is PCI 5 compliant.

1.2 Before you begin

Before installing the SCC, ensure you have available the correct version of firmware that supports the SCC. Firmware versions for vendev OPTs begin with R3.2.20. For example:

- R3.2.20_seq_conf_dev_02.05.0002.tgz

Also, make sure you read and understand the latest versions of the following documents:

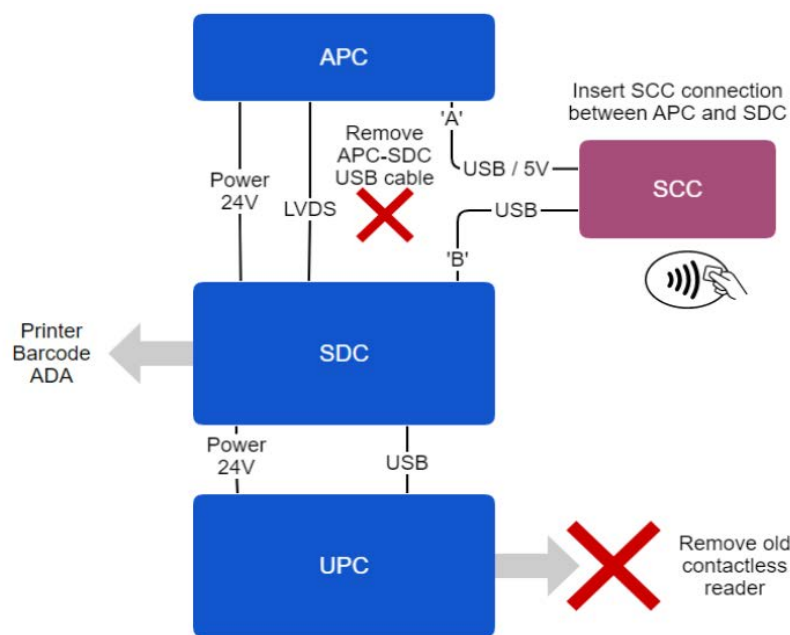
- Quick Start Guide: G7-100 Vendor Development OPT (DCV-00513)
- User Guide: G7-100 and G6-300 Payment Contactless Interface (DCV-00280)
- User Guide: G7-100 and G6-300 Service App (DCV-00260)
- User Guide: TMSLite (SocketTAL) (DCV-00277)

2.1 Installing the SCC

The SCC is designed as a drop-in replacement for the existing NFC antenna and LED contactless reader module. To install the SCC:

1. Disconnect the NFC contactless reader and LED cables from the UPC.
2. Remove the contactless reader.
3. Fit the SCC in place of the contactless reader.
4. Remove the USB cable connecting the APC to the SDC.
5. Connect the SCC's USB 'A' cable to the APC.
6. Connect the SCC's USB 'B' cable to the SDC.

The following connection diagram illustrates the physical architecture and the simple retrofit.



2.2 Next Steps

1. Check that all other G7-100 parts are correctly installed, according to Quick Start Guide: G7-100 Vendor Development OPT (DCV-00513).
2. Install the correct version of firmware according to the steps outlined in chapter Installing Packages of User Guide: TMSLite (SocketTAL) (DCV-00277).

Invenco develops and maintains its hardware and software products using industry-standard quality processes and is audited by the MasterCard TQM (Terminal Quality Management) scheme.

3.1 The P2-400 SCC approvals:

The P2-400 SCC has the following approvals:

- CAN/CSA C22.2 No. 62368-1-14 (Safety - Audio/video, information and communication technology equipment)
- CSA C22.2 No. 213-17 (Hazardous location safety - Class I Division 2)
- EN 300 300 & ETSI 301 489-3 (in conjunction with ETSI 301 489-1) for Radio
- EMV standards (Security)
- EN 55024 (Immunity)
- EN 55032 (Emissions)
- FCC certification (Part 15.225, 15.207 transmitter)
- IC certification (RSS-Gen Issue 5 section 8.8 & RSS-210 Issue 9 Section B.6)
- IEC/EN/UL 62368-1 (Safety - Audio/video, information and communication technology equipment)
- PCI (Payment Card Industry)
- TQM (Quality)
- UL 121201 (Hazardous location safety - Class I Division 2)

3.2 European Directives

The P2-400 SCC complies with the necessary European Directives for the CE mark.



3.3 FCC

FCC ID: 2AC7B-G7SCC

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.

Note: The grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. Such modifications could void the user's authority to operate the equipment.

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 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.

3.4 Industry Canada Compliance Statements

IC ID: 12614A-G7SCC

This device complies with Industry Canada's license-exempt RSSs. 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.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. l'appareil ne doit pas produire de brouillage, et
2. l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

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