Mitech Integrated Systems NFCVAC Data Reader Module User Manual

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Introduction

This document is the user manual for the Mitech Integrated Systems RFID module – NFCVAC This module is used for Mitech Integrated Systems product, which is Value Add Center (VAC) This module reads RFTAG and provide this reading to VAC

System Overview

This module reads data from the user RFID cards. And provides its reading to VAC. The VAC can be installed in different commercial places, where RFID cards are used and where is installed other Mitech Integrated Systems equipment. Based on the received data from the NFCVAC module, the main VAC's processor board will activate its peripheral devices, like payment system, card dispensing and etc. The module is connected to the VAC main board by using its 5pin connector and 5 wires cable.

Installation

The NFCVAC is installed following these steps:

- Obtain the module from the assemble line
- Install it on the back side of the door of the corresponding VAC
- Connect provided 5wires cable to the main controller board of the VAC

After installing the module follow the test procedure of the VAC device

Operation

After installing all components of the VAC, including NFCVAC module, the VAC is installed in the corresponding places for customer use. When customer want to use the VAC, he/she approaches the VAC with the proprietary RF card. The VAC has special place on its door, kind of pocket, to where customer can put they card. Behand this pocket is located NFCVAC module. After card is placed in the pocket the NFCVAC module will read card's data and transfer it to the main controller board of the VAC. Based on the received data VAC will activated its corresponding peripheral devices.

Compliance Statement

The NFCVAC has been tested to FCC 15.225, IC RSS-210 & FCC15B, ICES-003 (Class B). Also it was tested for Class B AC/DC powerline conducted emissions and for Class B radiated emission.

This device complies with Part 15 of the FCC rules. Operating is subject to the following two conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received, including interference that may cause undesired operation of this device.

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.

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

In according with FCC part 15 the NFCVAC label shall contain the following statement:

This device complies with Part 15 of the FCC rules. Operating 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.
Contain FCC ID: WSSNFCVAC and IC: 7992A-NFCVAC

Host Product Labelling

If the FCC ID is not visible when the module is installed inside another device, then the outside of the device into which the module is installed must also display a label referring to the enclosed module. This exterior label can use wording such as the following:

Mitech Integrated Systems Inc. Model: VAC
Contains FCC ID: WSSNFCVAC IC: 7992A-NFCVAC
This device complies with Part 15 of the FCC rules. Operating 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.

Technical Specification

Mechanical dimensions: RFID module typical dimensions: 81mm (L), 41mm (W), 3mm (H)
Material: Antenna and PCB are plated copper PCB
Electrical: Cable – direct connection 5pinconnector, voltage 5V, current – 80mA
RFID: operating frequency – 13.56Mhz, tag type – RFID ISO 14443A, ISO 14443B, MIFARE
Temperature rating: 0C – 70C

Documents / Resources

	Mitech Integrated Systems NFCVAC Data Reader Module [pdf] User Manual NFCVAC, WSSNFCVAC, NFCVAC Data Reader Module, Data Reader Module