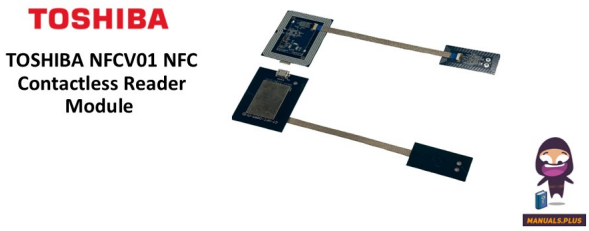


# TOSHIBA NFCV01 NFC Contactless Reader Module Owner's Manual



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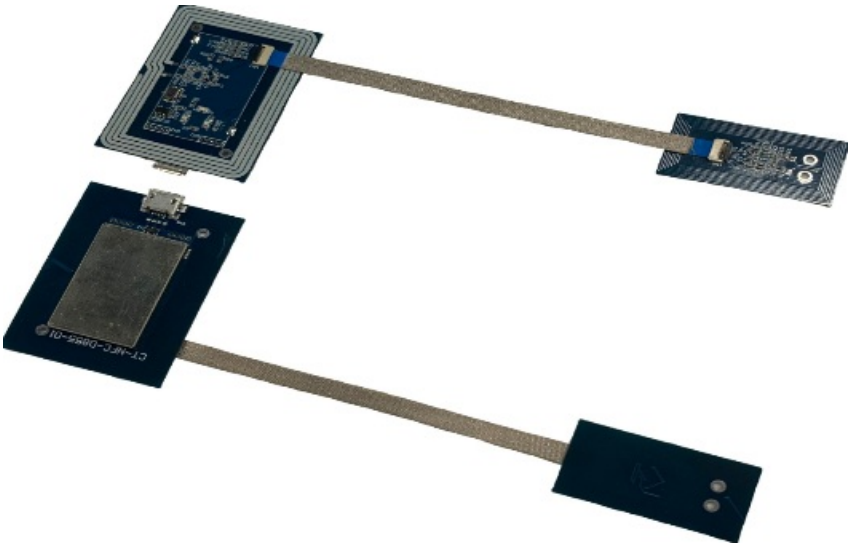
TOSHIBA

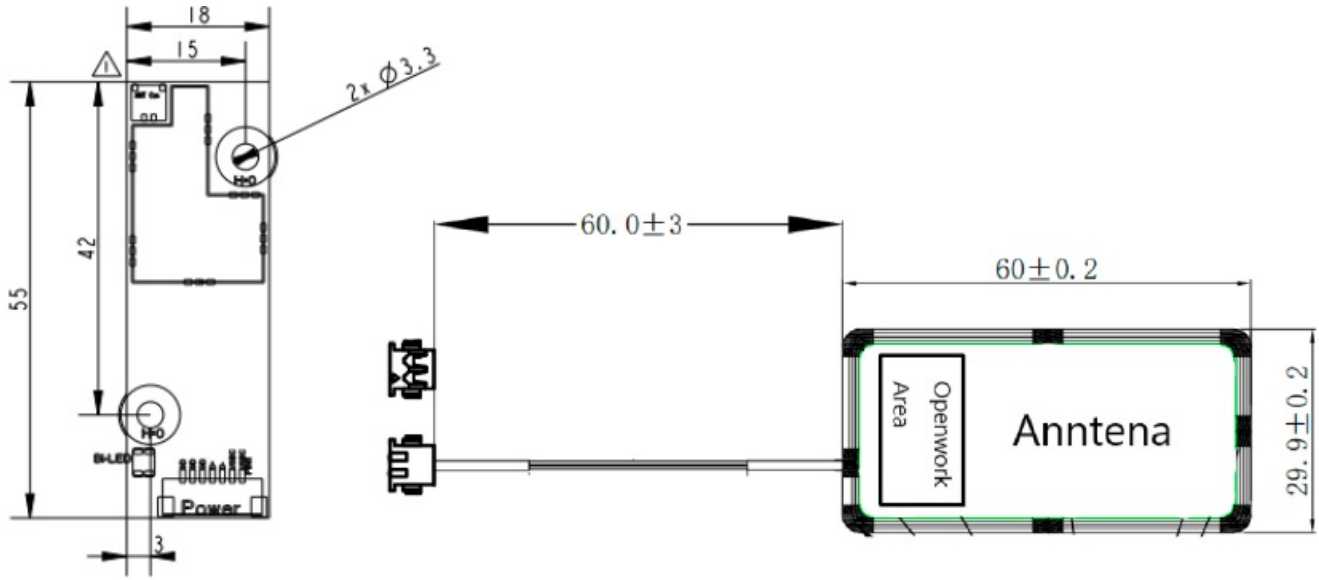
## TOSHIBA NFCV01 NFC Contactless Reader Module



## Contactless Reader Module

### 3A A05969700

3AA05969700, is a 13.56MHz contactless reader module, compliant to ISO14443 and ISO18092. The compact size is perfect solution for POS System, kiosk or self-service applications.
#gaspump #parkingmeter #vendingmachine #billpaymentkiosk #hospital #POS




## SPECIFICATIONS

### CPU
ARM Cortex M3 secure processor

### Standards

- ISO 14443 type A/B
- NFC: ISO 18092
- Mifare

- Felica
- Apple VAS Compliant
- Google Smart Tap Compliant

**Interface**

- USB 2.0 full speed
- Support CCID

**Firmware**
XAC Saturn Platform SDK
None payment supported

**Features**
Device firmware programmable with upgrade capability
Data Encryption: AES, TDES, RSA, ECC (optional)
Reserved FW upgrade capability for future NFC payment (MPOC) Support NFC reader mode only

**Antenna**

- 13.56MHz wire type antenna (fixed on sticker paper)
- Antenna connector is not detachable from control board.
- Reading distance up to 4 cm from antenna front face

**Certification**

- FCC, ISED and local regulatory certifications
- No payment certification

Note: Future NFC payment (MPOC) can be supportedby upgrading FW.

## Features

- Device firmware programmable with upgrade capability
- Data Encryption: AES, TDES, RSA, ECC (optional)
- Reserved FW upgrade capability for future NFC payment (MPOC)
- Support NFC reader mode only

**Antenna**

- 13.56MHz wire type antenna (fixed on sticker paper)
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- FCC, ISED and local regulatory certifications
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Note: Future NFC payment (MPOC) can be supportedby upgrading FW.

## Federal Communications Commission (FCC) Statement

You are cautioned that changes or modifications not expressly approved by the part responsible for compliance could void the user's authority to operate the equipment.

**15.105(b)**

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.

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 of the device.

This equipment should be installed.

**Note:** The end product shall has the words "Contains Transmitter Module FCC ID: 2AW3T-NFCV01

**OEM statement**
The Original Equipment Manufacturer (OEM) must ensure that the OEM modular transmitter must be labeled with its own FCC ID number. This includes a clearly visible label on the outside of the final product enclosure that displays the contents shown below. If the FCC ID is not visible when the equipment is installed inside another device, then the outside of the device into which the equipment is installed must also display a label referring to the enclosed equipment.
The end product with this module may subject to perform FCC part 15B unintentional emission test requirement and be properly authorized while installation to host(s), and platform, and integrator are obligated to have its manual or instruction with the related compliance warning to end users.

**This device is intended for OEM integrator only**

- The end product with this module may be subject to re-evaluate RF exposure as per 47CFR § 2.1091, and §2.1093 if antenna or usage, including co-located usage of other transmitters, of the subsequent installation are

changed.

- This radio transmitter has been approved by FCC/Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that Have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

**Antenna: 503600485**

Founded in 1993, XAC (TAIWAN OTC Securities Exchange 5490) is a leading R&D/Manufacturing company focused on transaction automation devices. XAC develops key component modules and low-cost secure platform architectures that can be leveraged to design customized solutions for its customers/partners. Today, XAC's technology can be found in cost-effective POS terminals, high-end countertop payment devices, Electronic Cash Registers (ECRs), wireless "pay-at-the-table" devices, multi-lane consumer activated terminals, outdoor payment terminals, PIN pads, Smartcard peripherals, RFID readers, gaming machines, cashless ATMs, kiosks, and countless other solutions. With a flexible and efficient manufacturing infrastructure, "in-house" key components, modules, and technical design expertise, XAC delivers cost-effective, high-quality solutions to customers in a timely manner. For more information about XAC, please visit **http://www.xac.com.tw**

## Frequently Asked Questions

- **Q: Can the contactless reader module be used for contact-based transactions?**
  A: No, the module is designed specifically for contactless operations and does not support contact-based transactions.
- **Q: What is the maximum reading distance of the antenna?**
  A: The reading distance of the antenna is up to 4 cm from the front face of the antenna.
- **Q: How can I enable NFC reader mode on the contactless reader module?**
  A: The module supports NFC reader mode only and should automatically function in that mode when connected to a compatible device.

## Documents / Resources

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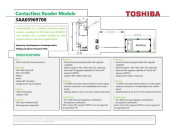
|  | **TOSHIBA NFCV01 NFC Contactless Reader Module** [pdf] Owner's Manual<br>NFCV01, NFCV01 NFC Contactless Reader Module, NFC Contactless Reader Module, Contact less Reader Module, Reader Module |

## References

- Welcome to XAC AUTOMATION CORP.
- User Manual