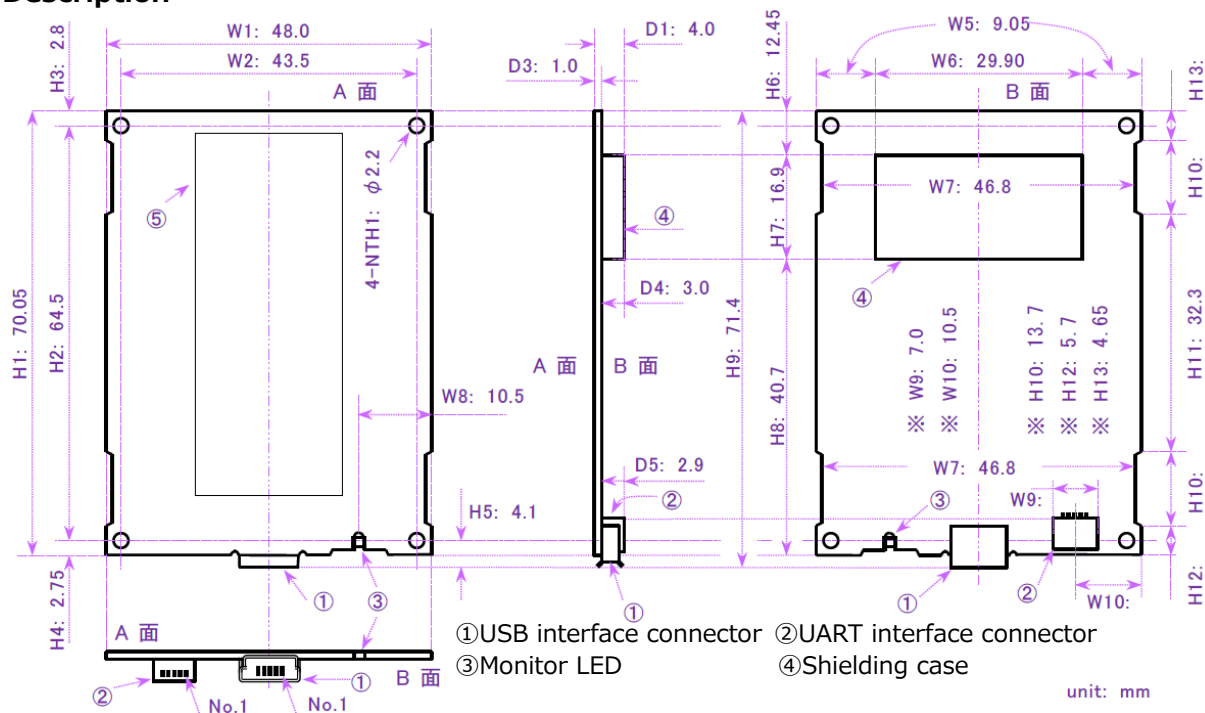


○Package Content ·TR63303(E)

○Package Description



○Features

This product is a reader/writer equipped with a security function that can communicate with different IC cards, including the 14443A, 14443B, FeliCa, and 15693. This product is incorporated and used in the personal authentication system in multifunction machines mainly used in offices, room entry/exit management devices, canteen systems, and other systems. Thanks to its encryption function, highly secure communications are possible.

○Specifications

TR63303(E)	
RF carrier frequency	13.56 MHz ± 50 ppm
Supported IC cards	ISO/IEC-14443A : MIFARE (Classic, UltraLight, DESFire, Plus, PlusSE) ISO/IEC-14443B : eLwise(D, E), eLwise-S ISO/IEC-15693 : I-Code SLI, Tag-it JIS X 6319-4 : FeliCa Standard (AES, AES/DES, DES), FeliCa Lite (Lite, Lite-S)
Supported protocols	JIS X 6319-4 (FeliCa), ISO/IEC-14443A, ISO/IEC-14443B ISO/IEC-15693, ISO/IEC-18092::P2P Passive
Host I/F	USB : Micro USB Type-B (USB 2.0 Full Speed Device) UART : SM05B-SRSS-TB(LF)(SN) / JST (Full duplex Asynchronous)
Human I/F	LED : Green×1
Power supply	DC +5.0 [V] / 300mA MAX ※ 5V supply should be stabilized on the host product.
Current consumption	280 mA (MAX)
Transmission power	0.005 W (MAX)
Secure Access	MIFARE: CRYPTO-1, MIFARE PlusSE:AES, FeliCa:AES/DES
Outline	4.6×48.0×71 [mm] / 9 [g]
Operation and Storage Environment	Temperature : -20~60[°C] Humidity : 30~90[%RH] (No dew condensation)
Compliance	Japan (Type # : AC-21081) / VCCI Class B FCC (Type : ORKTR63303-E) / CE / UK

○ **How to use**

To use the TR63303 on a PC, its driver is required. Before making a connection with a PC via a USB cable, check the version of Windows on the PC to which the driver is to be installed.

•Windows 10/11:

It is not necessary to install the driver. Proceed to “Check after driver installation” described later.

* In case where the driver cannot be recognized (The TR63303 cannot be operated), install the driver in accordance with the steps below.

•Windows 8.1 :

It is necessary to install the driver.

Install the driver by following the steps below.

○ **Downloading driver**

Download the driver from the following URL.

<https://www.ftdichip.com/Drivers/VCP.htm>

Click the “setup executable” link for the corresponding Windows on Comments (right side) under “Currently Supported VCP Drivers” on the page (middle part) of the above URL. Downloading of the driver starts.

Currently Supported VCP Drivers:

Subscribe to Our Driver Updates

Operating System	Release Date	Processor Architecture							Comments
		X86 (32-Bit)	X64 (64-Bit)	PPC	ARM	MIPSII	MIPSIV	SH4	
Windows (Desktop)*	2021-07-15	2.12.36.4	2.12.36.4	-	2.12.36.4A****	-	-	-	WHQL Certified. Includes VCP and D2XX. Available as a setup executable . Please read the Release Notes and Installation Guides .
Windows (Universal)**	2021-11-12	2.12.36.4U	2.12.36.4U	-	-	-	-	-	WHQL Certified. Includes VCP and D2XX.

All FTDI devices now supported by Windows 11. © Future Technology Devices International, Ltd. 2022

Comments

WHQL Certified. Includes VCP and D2XX. Available as a [setup executable](#). Please read the [Release Notes](#) and [Installation Guides](#).

Download file: CDM212364_Setup.zip

* This is the version as of January 2022.

○ **Installing the driver**

Install the downloaded driver.

(i) Decompress the downloaded file.

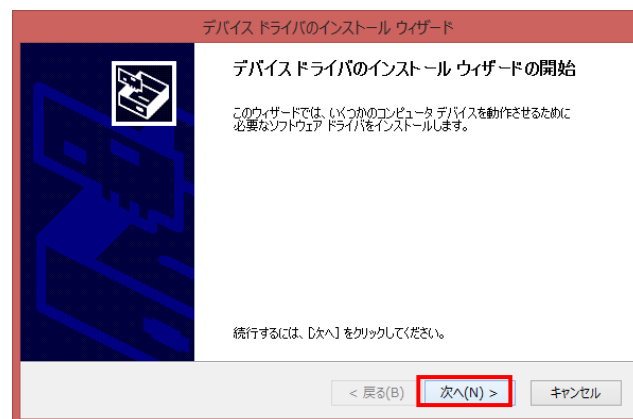
Executing “CDM212364_Setup.exe” displays the screen shown below. Click “Yes.”



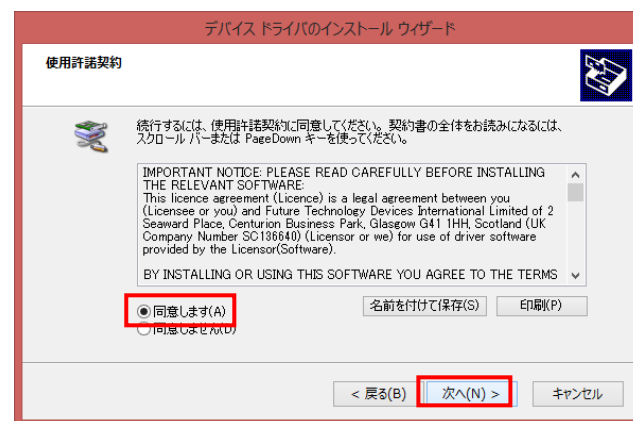
(ii)The window below opens. Click “Extract.”



(iii) Click “Next.”



(iv) Select “I accept the agreement” and click “Next.”



(v) Click “Finish.” Now the installation has completed.



○Requests of host product manufacturers

The modular transmitter is only FCC authorized for the specific rule parts (i.e., FCC transmitter rules) listed on the grant (FCC Part 15.207, 15.225), and the host product manufacturer is responsible for compliance to any other FCC rules that apply to the host not covered by the modular transmitter grant of certification.

The final host product still requires Part 15 Subpart B compliance testing with the modular transmitter installed.

Following information must be indicated on the host device of this module.

- Contains FCC ID : ORKTR63303-E
- Contains IC: 12443A-TR63303E

When exporting a host product to the EU region, be sure to provide information (company name and its address) about the importer of the product from the host product manufacturer in the instruction manual for the end user that is prepared by the host product manufacturer.

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FeliCa is a technology developed by Sony Corporation.

FeliCa is a trademark of Sony Corporation.

MIFARE is a trademark of NXP B.V.

I-Code is a trademark of NXP B.V.

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TOPPAN EDGE INC.



1-7-3 Higashishimbashi, Minato-ku, Tokyo
105-8311, Japan

○For safety




We notify the precautions for safe and correct use to prevent harm to customers and others and damage to property. Be sure to observe these instructions when using the product.











Meaning of the pictograms


Meaning of the warning display


	Warning	If you don't observe this caution mark, it may cause death or severe injury.
	Attention	If you don't observe this caution mark, you may be injured or things may be damaged.

Meaning of the Symbols

	Warning-Attention		Prohibited actions		Actions needed to be taken
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	Warning	To prevent serious accidents
		Be careful not to injure your hands on the edge of this product.
		Do not convert, repair the device.
		Do not store the device in chemicals or organic gas environment. The device may become eroded. In addition, it may cause harm to users body due to the hazardous substances attached to the product.
		This device is designed for general public welfare, industrial use. Please do not use as medical equipment or systems which require a high level of safety.
		Do not drop the device. Do not expose it to heavy shock.
		To prevent data loss by static electricity, be sure to touch the nearby metals and remove the body's static electricity prior to handling the product.
		We do not take responsibility or liability for any damage or loss caused through our device and service.
		Stop using the device immediately in the event of any abnormalities such as heat generation, smoke emission, unusual odor, or strange sound.
		The case may crack due to contact with oil. If the product is used in a place where oil scatters, please cover the product with a polyethylene bag or the like.

	Attention	Places not suitable for storage
		<ul style="list-style-type: none"> •Places exposed to direct sunlight •Places around fires and heaters •Places at risk of wetness •Humid places that are susceptible to condensation •Places easy to become hot •Places with vibrations •Places with static electricity •Places with much smoke and dust •Places with strong magnetic forces

	Attention	Others
		<ul style="list-style-type: none"> •Please protect the operating environment of this product and do not use it for any purpose other than the intended purpose. •We will not assume responsibility for any damage suffered by customers, users, or third parties as a result of the failed communication due to the operation. •This instruction may not be reproduced or altered without permission from TOPPAN EDGE INC. Unauthorized copying of part or all of the contents of this manual is prohibited. •This manual may be changed without prior notice to improvement. •Please contact us if you have any points to notice

OF for use in the United States: Federal Communications Commission (FCC) Statement

§15.19(a)

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.

§15.21 FCC CAUTION

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

OF for use in Canada: RSS-Gen Issue 5 §8.4

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

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

L'émetteur/récepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique 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;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

OF for use in the EU

This device can be used without restrictions in all EU member states and EFTA countries.

[EN] English	Hereby, TOPPAN EDGE INC. declares that the radio equipment type TR63303(E) is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: https://solutions.toppan-edge.co.jp/solution/13005/
[BG] Bulgarian	С настоящото TOPPAN EDGE INC. декларира, че този тип радиосъоръжение TR63303(E) е в съответствие с Директива 2014/53/ЕС. Цялостният текст на ЕС декларацията за съответствие може да се намери на следния интернет адрес: https://solutions.toppan-edge.co.jp/solution/13005/
[CS] Czech	Tímto TOPPAN EDGE INC. prohlašuje, že typ rádiového zařízení TR63303(E) je v souladu se směrnicí 2014/53/EU. Úplné znění EU prohlášení o shodě je k dispozici na této internetové adrese: https://solutions.toppan-edge.co.jp/solution/13005/
[DA] Danish	Hermed erklærer TOPPAN EDGE INC. at radioudstyretypen TR63303(E) er i overensstemmelse med direktiv 2014/53/EU. EU-overensstemmelseserklæringens fulde tekst kan findes på følgende internetadresse: https://solutions.toppan-edge.co.jp/solution/13005/
[DE] German	Hiermit erkläre TOPPAN EDGE INC. dass der Funkanlagentyp TR63303(E) der Richtlinie 2014/53/EU entspricht. Der vollständige Text der EU-Konformitätserklärung ist unter der folgenden Internetadresse verfügbar: https://solutions.toppan-edge.co.jp/solution/13005/
[ET] Estonian	Käesolevaga deklareerib TOPPAN EDGE INC. et käesolev raadioseadme tüüp TR63303(E) vastab direktiivi 2014/53/EL nõuetele. ELi vastavusdeklaratsiooni täielik tekst on kättesaadav järgmisel internetiaadressil: https://solutions.toppan-edge.co.jp/solution/13005/
[EL] Greek	Με την παρούσα ο/η TOPPAN EDGE INC. δηλώνει ότι ο ραδιοεξοπλισμός TR63303(E) πληροί την οδηγία 2014/53/ΕΕ. Το πλήρες κείμενο της δήλωσης συμμόρφωσης ΕΕ διατίθεται στην ακόλουθη ιστοσελίδα στο διαδίκτυο: https://solutions.toppan-edge.co.jp/solution/13005/
[ES] Spanish	Por la presente, TOPPAN EDGE INC. declara que el tipo de equipo radioeléctrico TR63303(E) es conforme con la Directiva 2014/53/UE. El texto completo de la declaración UE de conformidad está disponible en la dirección Internet siguiente: https://solutions.toppan-edge.co.jp/solution/13005/
[FR] French	Le soussigné, TOPPAN EDGE INC. déclare que l'équipement radioélectrique du type TR63303(E) est conforme à la directive 2014/53/UE. Le texte complet de la déclaration UE de conformité est disponible à l'adresse internet suivante: https://solutions.toppan-edge.co.jp/solution/13005/
[IT] Italian	Il fabbricante, TOPPAN EDGE INC. dichiara che il tipo di apparecchiatura radio TR63303(E) è conforme alla direttiva 2014/53/UE. Il testo completo della dichiarazione di conformità UE è disponibile al seguente indirizzo Internet: https://solutions.toppan-edge.co.jp/solution/13005/

[LV] Latvian	Ar šo TOPPAN EDGE INC. deklarē, ka radioiekārta TR63303(E) atbilst Direktīvai 2014/53/ES. Pilns ES atbilstības deklarācijas teksts ir pieejams šādā interneta vietnē: https://solutions.toppan-edge.co.jp/solution/13005/
[LT] Lithuanian	Aš, TOPPAN EDGE INC. patvirtinu, kad radijo įrenginių tipas TR63303(E) atitinka Direktyvą 2014/53/ES. Visas ES atitikties deklaracijos tekstas prieinamas šiuo interneto adresu: https://solutions.toppan-edge.co.jp/solution/13005/
[HR] Croatian	TOPPAN EDGE INC. ovime izjavljuje da je radijska oprema tipa TR63303(E) u skladu s Direktivom 2014/53/EU. Cjeloviti tekst EU izjave o skladnosti dostupan je na sljedećoj internetskoj adresi: https://solutions.toppan-edge.co.jp/solution/13005/
[HU] Hungarian	TOPPAN EDGE INC. igazolja, hogy a TR63303(E) típusú rádióberendezés megfelel a 2014/53/EU irányelvnek. Az EU-megfelelőségi nyilatkozat teljes szövege elérhető a következő internetes címen: https://solutions.toppan-edge.co.jp/solution/13005/
[MT] Maltese	B'dan, TOPPAN EDGE INC. niddikjara li dan it-tip ta' tagħmir tar-radju TR63303(E) huwa konformi mad-Direttiva 2014/53/UE. It-test kollu tad-dikjarazzjoni ta' konformità tal-UE huwa disponibbli f'dan l-indirizz tal-Internet li ġej: https://solutions.toppan-edge.co.jp/solution/13005/
[NL] Dutch	Hierbij verklaar ik, TOPPAN EDGE INC. dat het type radioapparaat TR63303(E) conform is met Richtlijn 2014/53/EU. De volledige tekst van de EU-conformiteitsverklaring kan worden geraadpleegd op het volgende internetadres: https://solutions.toppan-edge.co.jp/solution/13005/
[PL] Polish	TOPPAN EDGE INC. niniejszym oświadczam, że typ urządzenia radiowego TR63303(E) jest zgodny z dyrektywą 2014/53/UE. Pełny tekst deklaracji zgodności UE jest dostępny pod następującym adresem internetowym: https://solutions.toppan-edge.co.jp/solution/13005/
[PT] Portuguese	O(a) abaixo assinado(a) TOPPAN EDGE INC. declara que o presente tipo de equipamento de rádio TR63303(E) está em conformidade com a Diretiva 2014/53/UE. O texto integral da declaração de conformidade está disponível no seguinte endereço de Internet: https://solutions.toppan-edge.co.jp/solution/13005/
[RO] Romanian	Prin prezenta, TOPPAN EDGE INC. declară că tipul de echipamente radio TR63303(E) este în conformitate cu Directiva 2014/53/UE. Textul integral al declarației UE de conformitate este disponibil la următoarea adresă internet: https://solutions.toppan-edge.co.jp/solution/13005/
[SK] Slovak	TOPPAN EDGE INC. týmto vyhlasuje, že rádiové zariadenie typu TR63303(E) je v súlade so smernicou 2014/53/EÚ. Úplné EÚ vyhlásenie o zhode je k dispozícii na tejto internetovej adrese: https://solutions.toppan-edge.co.jp/solution/13005/
[SL] Slovenian	TOPPAN EDGE INC. potrjuje, da je tip radijske opreme TR63303(E) skladen z Direktivo 2014/53/EU. Celotno besedilo izjave EU o skladnosti je na voljo na naslednjem spletnem naslovu: https://solutions.toppan-edge.co.jp/solution/13005/
[FI] Finnish	TOPPAN EDGE INC. vakuuttaa, että radiolaitetyyppi TR63303(E) on direktiivin 2014/53/EU mukainen. EU-vaatimusten mukaisuusvakuutuksen täysimittainen teksti on saatavilla seuraavassa internetosoitteessa: https://solutions.toppan-edge.co.jp/solution/13005/
[SV] Swedish	Härmed försäkrar TOPPAN EDGE INC. att denna typ av radioutrustning TR63303(E) överensstämmer med direktiv 2014/53/EU. Den fullständiga texten till EU-försäkran om överensstämmelse finns på följande webbadress: https://solutions.toppan-edge.co.jp/solution/13005/