

TAP ON THE FUTURE.



WORLD OF NFC

With more than 100 years of existence, NEC is one of the world's leading organisations providing IT/Networking solutions with complete e-money service, including e-money servers, e-money payment terminals, and e-money media.

NEC brings the power of NFC enabled solutions to customers in areas like loyalties, signage, ticketing, access control and CRM solutions. NFC makes life easier and more convenient for consumers around the world by making it simpler to make transactions, exchange digital content and connect electronic devices with a touch.



Loyalty Solutions



POS Software for Mobile



Digital Signage



CRM Solutions



Payment Gateway



E-ticketing



Coupons System



Mobile Wallet



Kiosks /Vending Machine

KEY BENEFITS

Reduce queues at the cash register

Customers can pay more quickly, reducing queues at the cash register.

Increase sales per customer

Sales per customer can be increased because payment is easy, making customers buy more.

Easy registration for customers

Customers do not need a bank or a credit card account. The service can be used immediately by every customer.

Increase the number of repeat visitors

Closed-loop prepaid e-money can only be used at your store. Customers will therefore repeatedly visit the store to use their remaining credit.

Enable original promotions

Purchase history can be analyzed, allowing you to create more effective promotions. Value-added services such as loyalty points or e-money charging bonus can also be incorporated.

ADVANTAGES OF NFC



Highly Secure

Access to data is controlled by cryptographic keys which are securely stored



Multi-application support

Can support multiple applications at the chip level



Long Life

Due to non-contact usage, there is no wear and tear compared to MSR/EMV



Small & Convenient Form Factors

Stickers can be attached to user's personal devices like mobile/wrist band.



Quick & Convenient

Tap and Go, Small processing time

Empowered by Innovation

NEC

NEC'S NFC PORTFOLIO – 3 PRIMARY COMPONENTS

E-money servers

Manage prepaid e-money user accounts, transactions and balances. Handle clearing and settlement. Provided as a cloud service.



Cloud server

E-money payment terminals

Read and/or write information from e-money media.



NFC reader/writer
Magnetic stripe reader

Barcode reader

E-money media

Hold customer's information (ID and/or balance value). NFC cards and phones are highly secure and convenient to use.



Barcode

NFC smartphone

FUNCTIONALITY FOR E-MONEY ISSUERS

- Manage customer and merchant profile information
- View transaction histories of all customers and merchants
- Settle transaction fees with merchants

FUNCTIONALITY FOR MERCHANTS

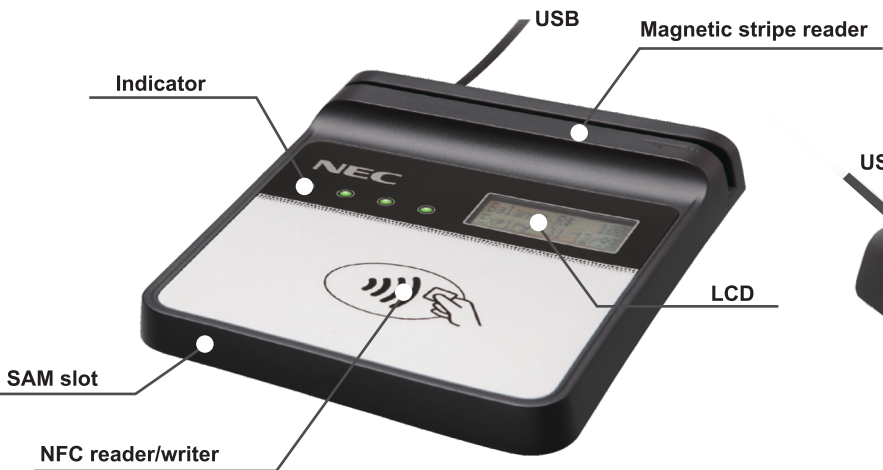
- Apply for e-money services
- Manage merchant profile information
- View transaction histories

FUNCTIONALITY FOR CUSTOMERS

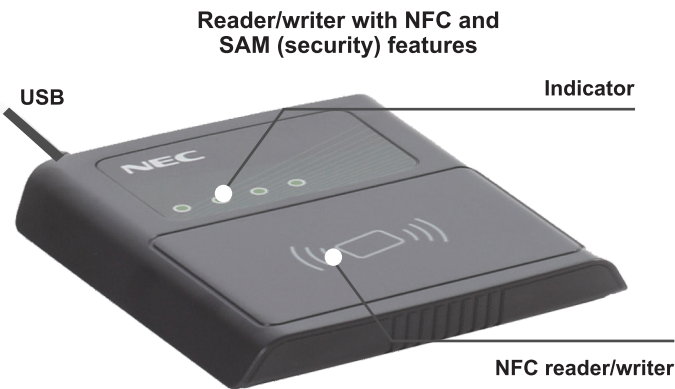
- Purchase goods and charge e-money at merchant stores
- View transaction history and balance via website or SMS
- Manage customer profile information via website

PAYMENT TERMINALS

Reader/writer with magnetic stripe reader as well as NFC and SAM (security) features



VRW-05



VRW-01

SPECIFICATIONS

Versatile Terminals for Integrated E-money Solution (NFC supporting model)

Model Type		VRW-05	VRW-01
NFC support		✓	✓
Supported Standards		FeliCa / ISO 14443 Type A (MIFARE) / Type B	FeliCa / ISO 14443 Type A (MIFARE) / Type B
Reading functionality	Magnetic stripe	✓	-
	Contactless Cards	✓	✓
Display (LCD)	Type	Monochrome	-
	Screen size	16 characters (letters and numbers) x 2 lines	-
Interface		USB	USB
EMV compliance		EMV Contactless Level 1 ver. 2.2	-
Security	SAM slots	4	-
	Built-in SAM	✓	✓
Dimensions		112mm (W) x 27 mm (H) x 139 mm (L)	117mm (W) x 15 mm (H) x 131 mm (L)
Weight		Approx. 175 g	Approx. 150 g
Power supply		USB	USB