

DUALi

Product line-up 2017



Always inspire the next **NFC** solution



Desktop Reader

Item	DE-620	Dragon	Dragon BT	DE-630	NFC PAD (DE-632)
					
DISPLAY	2 LED	2 LED	4 LED	4 LED 128*64 Graphic LCD	4 Status LED 3.5" Graphic LCD Touchpad
Contact IC	O	X	O	O	X
Contactless /NFC	ISO 14443 A/B Mifare, DESFire FeliCa ISO15693(620R) ISO 18092 NFC Tags	ISO 14443 A/B Mifare, DESFire FeliCa ISO15693(Option) ISO 18092 NFC Tags	ISO 14443 A/B Mifare, DESFire FeliCa ISO15693 ISO 18092 NFC Tags	ISO 14443 A/B Mifare, DESFire FeliCa ISO 18092 NFC Tags	ISO 14443 A/B Mifare, DESFire FeliCa ISO 18092 NFC Tags
SAM SLOT	1 EA	1 EA	1 EA	4 EA	4 or 8 EA
INTERFACE	USB	USB or Serial	Bluetooth 2.1 USB	Serial	USB, Seiral TCP/IP
Certification	CE, FCC, Telec	CE, FCC, Telec	CE, FCC	CE, FCC Contactless EMV L1	CE, FCC Contactless EMV L1

➤ Desktop Reader



DE-620/ 620R

Dual interface Reader/ Writer for Desktop

- Contactless : ISO14443 A/B, Mifare™, FeliCa®, ISO 18092
NFC tag type 1-4 supportive , CIPURSE
- Contact : ISO 7816 (1EA X ID1 + 1EA X SAM)
- Interface: USB, RS232 (Option)



DRAGON



Contactless Reader/Writer for Desktop

- Contactless : ISO14443 A/B, Mifare™, FeliCa®, ISO 18092
NFC tag type 1-4 supportive, CIPURSE
ISO 15693 (option)
- Contact : ISO 7816 (1EA x SAM)
- Interface: USB, RS232 (option)

➤ Wireless Reader



DRAGON BT

Contactless Reader

- Contactless : ISO14443 A/B, Mifare™, DesFire FeliCa, ISO 18092 NFC Tags
ISO 15693,
- Contact : ISO 7816 (1EA x SAM)
- Battery: 580mA (Li-ion battery)
- Interface: USB, Bluetooth (BT- 2.1, BLE – 4.0)
- CCID compliance
- Power : USB (PC –linked) or Battery (rechargeable)

DUALi Solution package



Mobile Roll call solution

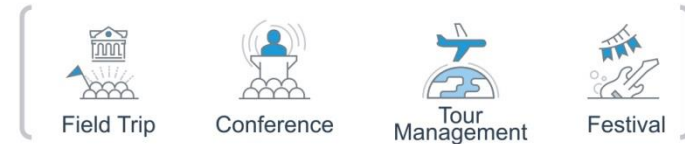
Register / check attendance using **NFC**
See real-time data via **Bluetooth**

What Brings to You

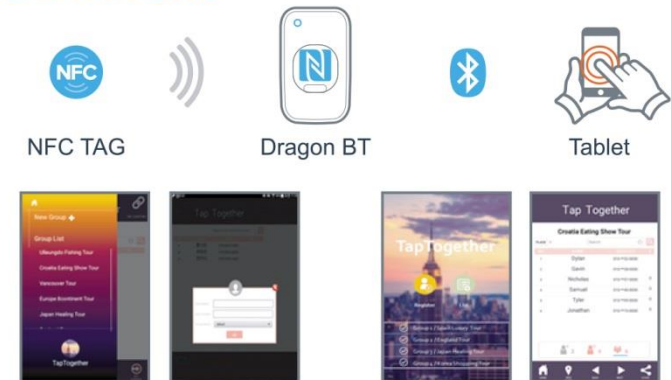
- Save time & effort to check attendance without bottleneck
- Bring simplicity to get started attendance check
- Easy to use interface let you configure attendance data
- Provide way of you to combine in-depth analytics with business
- Be innovative by optimizing the utilization of your infrastructure with advanced solution

✓ **Portable attendance check!**

Seamlessly Applied to



How It Works



➤ Desktop / Payment Reader



DE-630/ DE-631

Contactless payment reader

- Contact : ISO 7816 (4EA x SAM)
- Display : 128 x 64 Graphic LCD, 4x status LED
- Power : DC 12V
- Interface: RS232 / USB
- EMV contactless L1, Visa, Master certified



NFC PAD

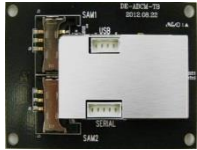
Contactless payment reader

QR generation, Signature capture, soft-pin pad

- Contact : ISO 7816 (8EA x SAM)
- Display : 3.5" Graphic LCD (Touch)
4x status LED
- Power : DC 5V
- Interface: RS232, mini USB, TCP/IP
- EMV contactless L1, Visa, Master certified

➤ RF Modules

DUALi offers wide range of module & customizing modules for OEM products. with full SDK so that developer can easily integrate it to their existing system.



DE-ABCM_TB

- Multi Protocol RF Module
- Embedded Antenna
- ISO14443 A/B, Mifare™, FeliCa, ISO 18092, NFC Tag type 1~4
- USB2.0, RS232 / TTL (option)
- 2 SIM Type SAM



DE-ABM5

- Multi-protocol RF Module
- ISO14443 A/B, Mifare™, FeliCa, ISO 18092, NFC Tag type 1~4
- USB2.0, RS232
- Plug in type Core module (External Antenna)



DE-ABCM6

- NFC Reader/Writer Module
- Embedded Antenna
- ISO 14443 A/B, Mifare, DesFire, ISO 18092, NFC Tag type 1~4
- USB2.0, RS232 / TTL (option)
- PC/SC CCID



DE-ABM6

- Economic RF Module
- Internal/ External Antenna
- RS232 / TTL (option)
- ISO14443 A/B, Mifare™, FeliCa®, ISO 15693, NFC Tag type 1~5

Stand-alone Reader/ Wall mount reader

Item	ITOUCH20A	ITOUCH pop2A	DE-930	DE-950	DE-960
					
OS	Android 4.2.2				
DISPLAY	7" TFT LCD Resistive touch	4.3" TFT LCD Resistive touch	Controllable LED		
Contactless /NFC	ISO 14443 A/B, Mifare, DESFire FeliCa ISO 18092 NFC Tags				
SAM Slot	1 EA	1 EA	1 EA	1EA (OPTION)	
Interface	TCP/IP, USB, Serial(RS-232/485), Wiegand WIFI/Bluetooth (Option)		, Serial(RS-232/485), Wiegand		
Features		Camera		Water proof (IP65)	
Certification	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

➤ Stand-alone Terminals



iTOUCH20A

Multi purpose RF reader (NFC membership/ payment)

- O/S: Android jellybean
- Display : 7" TFT wide (800 x 480) Resistive touch LCD
- Power : DC 12V
- Interface: RS232 / 485, USB, TCP/IP, Wiegand, Micro SD
Wi-Fi

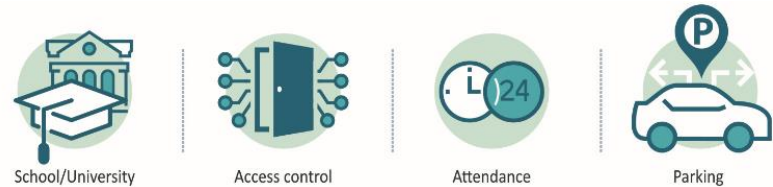


iTOUCH pop2A

Multi purpose RF reader (NFC access control)

- O/S: Android jellybean
- Display : 4.3 TFT wide Resistive touch LCD
- Camera : 5M pixel auto focus
- Key pad : 4 x function keys
- Power : DC 12V
- Interface: RS232 / 485, USB, TCP/IP, Wiegand, Micro SD

➤ Wall mount Reader



DE-930

-Secured Proximity Reader

- Wiegand Format (32 / 34 / 64/ 66), RS-232, RS485
- Contactless : ISO14443 A/B, Mifare™, FeliCa®, ISO 18092
NFC tag type 1-4 supportive, CIPURSE
- Contact : ISO 7816 (1EA x SAM)

DE-950

-Secured Proximity Reader (Water proof)

- Wiegand Format (32 / 34 / 64/ 66), RS-232, RS485
- Water-proof (IP65 complaint)
- Contactless : ISO14443 A/B, Mifare™, FeliCa®, ISO 18092
NFC tag type 1-4 supportive, CIPURSE

➤ Wall mount Reader



School/University



Access control



Attendance



Parking

DE-960

-Secured Proximity Reader (Water proof)

- Wiegand Format (32 / 34 / 64/ 66), RS-232, RS485
- Contactless : ISO14443 A/B, Mifare™, FeliCa®, ISO 18092
NFC tag type 1-4 supportive, CIPURSE
- Contact : ISO 7816 (1EA x SAM)
- Key pad : 10 Numeric key + 2 function key Capacitive touch

ICU-300

-Secure I/O Control Unit (Water proof)

- ✓ On-board Door Lock Control Circuit
- ✓ High security : Square Signal for Lock Control
- Emergency Exit Function
- INPUT :Door sensor , Open SW, RFU X2 (5Ch.+1)
- Output : (COM, NC, NO) X 2 Ch.

DUALi Solution package

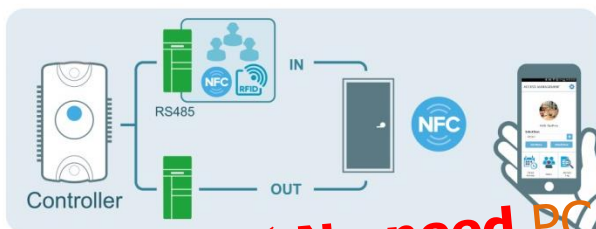
Tap Door

Simple and Cost-effective

Mobile access control system fits for SMEs
(small /medium –sized enterprises)

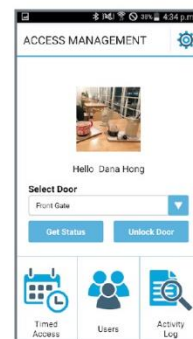
Why DUALi Tap Door?

- **Cost-effective**
 - ✓ Facilitate the existing NFC mobile to manage Access Data
 - ✓ DUALi UID (User ID) using HCE technology allows user to use their NFC phone as a credential - (no need to issue ID cards)
- **Easy and portable**
 - ✓ Portable database makes it available for flexible credentials management
 - ✓ Tap Door features a user-friendly and intuitive interface for administrators
- **Various credential types supported**
 - ✓ Android NFC - enabled phone
 - ✓ NFC cards tags (Type A/ Type B/ FeliCa)



✓ **No need PC software!**

What You'll Need



ICU300



DE-950/DE-960

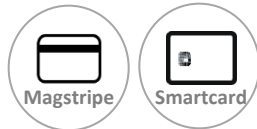


DUAL PAY Series

Item	DE-633R	DE-634	DE-635	DP-636	DP-680 (DE-ABCM2.V2)
					
OS				Android 4.2.2	
DISPLAY	X	128* 64 Graphic LCD	128*64 Graphic LCD	4.3"TFT Color	4 Status LED
MSR	O	X	O	O	X
IC	O	X	O	O	X
RF	X	O	OPTION	O	O
SAM SLOT	X	4	4	6	4 or 6
INTERFACE	Serial or FTDI USB	USB, RS232 (2EA)	Serial (2ea) FTDI USB	Micro HDMI output, USB (2) Serial (2)/FTDI, LAN, Micro SD	USB, Serial
Certification	Contact EMV L1, L2		Contact EMV L1, L2	Contact EMV L1/L2, Contactless EMV L1	Contactless EMV L1

Payment reader

➤ DUAL PAY DE-633R



Contact EMV L1 & L2 certified MS & Chip card reader for POS

CPU	32bit ARM, ARM Cortex M4 Processor / 168MHz
Program Memory / Data Memory	1MBytes Flash SRAM, 192Kbyte, external 512Kbyte
Serial Interface	Host1(RX-323 or USB to Serial), Host2 Keypad, Contact EMV L2, MSR, SAM
Contact EMV L1/L2	EMV L1 : DE-300M, Landing type EMV L2 : Certified 2014. Aug version including Union pay
Display	Host or PC using USB
Operating Power	5V
SAM	ISO-7816 1 SAM
USB	For PC communication, FTDI USB to Serial Converter
Dimension	135 * 43 * 54(H)mm
MSR	2 Track
Certification	KC, Contact EMV L1/L2

Payment reader

➤ DUAL PAY DE-634



Contactless reader & signature pad

CPU	STM32F103RBT6 (ARM Cortex_M3)
Program / Data Memory	128KBytes Flash / 20KBytes SRAM
Host Communication	USB 2.0 Full speed (USB to Serial), RS-232 * 2
Display / Touch	128x64 Graphic LCD (2.5" / Mono) / Resistive touch
Reading Distance	Maximum 5cm
Contactless Communication	Mifare,ISO 14443 Type A ,B , ISO 18092 (NFC), FeliCa
Contact communication	ISO-7816 4SAM
Input power	DC 5V adaptor
Buzzer	Magnetic buzzer
Dimension	111(W) *51(H) * 150(D)
Operating Temp / Humidity	0°C ~ 50°C / 5%~90% relative humidity
Certification	KC certified CE, FCC, Contactless EMV, NFC (LLCP/SNEP) compliant

Payment reader

➤ DUAL PAY DE-635



Contact EMV L1 & L2 certified MS & Chip card reader & Signature pad

CPU	STM32F415ZGT6, 32bit ARM, ARM Cortex M4 Processor / 168MHz
Program Memory / Data Memory	1MByte Flash/ SRAM, 192Kbyte, (External 512Kbyte for NFC)
Host Communication	RJ-11 (232) * 2 FTDI USB * 1
Contact EMV L1/L2	DE-300M, Landing type , L2 (Certified 2014)
Display / Touch	128x64 Graphic LCD (Mono) / Resistive touch
Operating Power / Supply	DC5V@800mA / External Power, output DC 5V /2A
SAM	ISO-7816 4SAM
MSR	2 Track (2+3) / (3 Track option)
NFC (OPTION)	Mifare,ISO 14443 Type A ,B / ISO 18092 (NFC),FeliCa /RF EMV
Dimension	111(W) *51(H) * 150(D)
Operating Temp / Humidity	0°C ~ 50°C / 5%~90% relative humidity
Certification	KC, EMV L1/L2 Certified

Payment reader

➤ DUAL PAY DP-636



Contact EMV L1 & L2 , Contactless L1 certified
MS & IC/ NFC reader & Signature pad
Multimedia display (AVI, MPEG4) output

CPU	32bit ARM-CORTEX A7 RISC processor/ 720MHz, Max 1 GHz
Program Memory / Data Memory	4GByte Nand Flash / DDR3 1Gbyte
O/S	Android 4.2.2 (Kitkat)
Host Communication	Micro HDMI output, USB (2) Serial (2)/FTDI, LAN, Micro SD
Contact EMV L1/L2	DE-300M, Landing type , L2 (Certified 2014)
Display / Touch	480*272 RGB COLOR / Resistive touch
Operating Power / Supply	DC5V@800mA / External Power, output DC 5V /2A
SAM	ISO-7816 6SAM
MSR	2 Track (2+3) / (3 Track option)
NFC (OPTION)	Mifare,ISO 14443 Type A ,B / ISO 18092 (NFC),FeliCa / Contactless EMV L1
Operating Temp / Humidity	0°C ~ 50°C / 5%~90% relative humidity
Certification	KC, EMV Contact L1/L2 , Contactless EMV L1 certified

Payment reader

➤ DUAL PAY DP-680



Mounting type



Standing type



CPU	ARM 32-bit Cortex-M4
Program/ Data Memory	1MBytes Flash / 192KBytes SRAM
Host Interface	USB 2.0 , Serial (RS-232) /TTL UART(115200bps)
Contactless Communication	ISO 14443 A/B, Mifare™, ISO 18092(NFC), DESFire, FeliCa®, ISO 15693
Contact Communication	ISO-7816 SAM x 4EA (UP TO 6EA)
Frequency	13.56 MHz
Contactless Speed	106/212/424/848kbps (Up to 424kbps for NFC, FeliCa)
Reading Distance	Min. 4cm
Host Protocol	PC/SC, Proprietary
Input Power	DC5V / 200mA (RF ON with USB POWER)
Dimension	Body : 108 x 78 x 19 (mm), Deco : 135 x 105 x 20 (mm)
Display	4 LEDs , Connector for external LEDs
Operating Temperature	-20 ~ 60 °C
Certification	Contactless EMV certified