## Ubiik NFC Demo Kit

With Ubiik's NFC Demo Kit, you will begin your experience with NFC solution. The kit is designed to be easy to use to test application and get to know the technology quickly.

#### Components

This kit includes the followings components:

- 2.7" NFC tag (1 pc)
- 2.7" batteryless NFC tag (1 pc)
- 4.2" NFC tag (1 pc)
- NFC Reader/Writer Sony RC-S380
- Graphic User Interface for Windows
- User Manual







#### Features

#### NFC tags:

- Fast update
- High readability display
- Image compression and grayscale

#### **NFC Reader:**

- NFC Forum compliance including FeliCa<sup>™</sup> and ISO/IEC 14443 Type A / Type B
- Compatible with Windows
- More info: http://www.sony.net/Products/felica/business/products/RC-S380.html

#### Graphic User Interface (GUI):

- No setup, easy-to-use
- 6 preset templates (image with dithering, badge, logistics, price tag, 2D barcode and free text)
- Available for online download

#### **Technical Support**

• Please call the Ubiik office +886 3 668 4886

#### **Ubiik Inc**

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## 2.7" Batteryless NFC e-Paper Tag



#### Features:

NFC tag with Epaper Display (EPD) and fast image update over NFC. Great Readability outdoor and indoor environment.

Physical Specification	S
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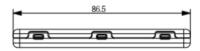
Dimension	86.5 x 62.0 x 8.9 (mm)
Weight	50 g
Active Display Area	57 x 38 (mm)
Resolution	117 dpi (264 x 176)
Material	Polycarbonate

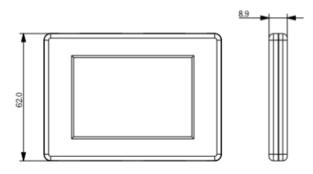
#### **Environment Specifications**

Operating Temperature	0 to +40°C
Storage Temperature	-25 to +70°C
Warranty	1 year
Standard	ISO 18092, Type-A, Type-B, Type-F

#### **General Specifications**

Battery	Batteryless (powered by antenna)
No of updates	100,000 times
	,
IC	Panasonic MN63Y
Range	0.5 cm (Sony Pasori RC- S380)
Update speed	2 to 3 seconds
Recommended NFC readers	Sony Pasori RC-S380, ACS ACR1252





### 2.7" NFC e-Paper Tag

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#### Features:

NFC tag with Epaper Display (EPD) and fast image update over NFC. Great Readability outdoor and indoor environment.

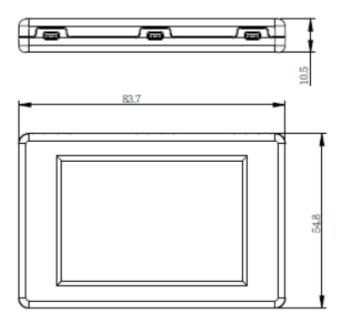
Better speed/range and more dependable transmission than batteryless tag.

Physical Specifications	
Dimension	83.7 x 54.8 x 10.5 (mm)
Weight	50 g
Active Display Area	57 x 38 (mm)
Resolution	117 dpi (264 x 176)
Material	Polycarbonate

#### **Environment Specifications**

Operating Temperature	0 to +40°C
Storage Temperature	-25 to +70°C
Warranty	1 year
Standard	ISO 18092, Type-A, Type-B, Type-F

General Spec	ifications
Battery	2 x CR2032 (replaceable)
Number of updates	100,000 times
IC	Panasonic MN63Y
Range	1 cm (Sony Pasori RC-S380)
Speed of writing	0.4 to 0.6 seconds
Recommended NFC readers	Sony Pasori RC-S380, ACS ACR1252



### 4.2" NFC e-Paper Tag





#### Features:

NFC tag with Epaper Display (EPD) and fast image update over NFC. Great Readability outdoor and indoor environment. Various use cases for a paperless solution in Industrial IoT and Supply Chain.

#### Physical Specifications

Dimension	94 x 105 x 12 (mm)
Weight	92 g
Active Display Area	Approx 84.8 × 63.6 (mm)
Resolution	120 dpi (400 x 300)
Material	Polycarbonate

#### Environment Specifications

Operating Temperature	0 to +40°C
Storage Temperature	-25 to +70°C
Warranty	1 year
Standard	ISO 18092, Type-A, Type-B, Type-F

#### **General Specifications**

Battery	2 x CR2450 (replaceable)
Number of updates	100,000 times
IC	Panasonic MN63Y
Range	0.5 cm (Sony Pasori RC-S380)
Update speed	2 to 3 seconds
Recommended NFC readers	Sony Pasori RC-S380, ACS ACR1252

## Ubiik UHF Demo Kit

With Ubiik's UHF Demo Kit, you will begin your experience with UHF solution. The kit is designed to be easy to use to test application and get to know the technology quickly.

#### Components

This kit includes the followings components:

- 2.7" UHF tag (1 pc)
- 4.2" UHF tag (1 pc)
- Denso Handheld Reader Application Software (WinCE 5.0)
- Favite USB Reader Application Software (Windows)
- User Manual





#### Features

#### **UHF tags:**

- Font, barcodes and QR code encoder loaded into the tag and very fast update speed
- Suitable for logistics and industrial use cases
- High readability display

#### **Recommended UHF Reader:**

- Compatible to UHF (920MHz) ISO/IEC18000-6 TypeC
- Favite F520 USB Reader or Denso BHT-1281 Reader

#### **Application Software:**

- No setup, easy-to-use
- Four default logistics templates and update Text, QR code and barcode easily on e-Ppaper display
- Available for online download

#### **Technical Support**

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#### Features:

UHF tag with Epaper Display (EPD) and the EPD can be refreshed. Great Readability outdoor and indoor environment.

Various use cases for a paper less solution in Industrial IoT and Supply Chain.

#### **Physical Specification**

Dimension	138.9 × 57.5 × 13.2 (mm)
Weight	Approx 86 g
EPD Active Area	Approx 57 x 38 (mm)
Pixel	264 x 176 117 Dpi
Material	Polycarbonate

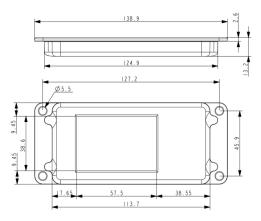
#### **Electrical Specification**

Battery life	5 years (3 updates/day) *It is not guaranteed.
Battery	CR2450 x 2 (Replaceable)
Read Range	Approx 1M @250mW
Write Range	Approx 50cm @250mW
IC	MonzaX-2K
	WUTZAX-ZK
User Memory	2,176 bits
User Memory	2,176 bits

#### **Environment Specification**

Operating Temp	0 to +40°C
Storage Temp	-25 to 70°C
Waterproof	IPX6
Warranty	1 year
Standard	ISO/IEC18000-63 / EPC Global Class-1 Gen2 V1.2.0

Others	
Japanese font	Load in the tag
Barcode	Code 39, Code 128
QR code	2D QR code version 1 (21x21) to 3 (29x29)





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#### Features:

UHF tag with Epaper Display (EPD ) and fast update over UHFC RFID. Great Readability outdoor and indoor environment.

Longer range than NFC. Advanced features: Built-in JIS X208 1990 fonts, 1D barcodes, and QR encoder for version 1-3 to make the update faster.

#### **Physical Specifications**

Dimension	Approx. 129 x 84 x12 (mm)
Weight	Approx. 100 g
Active Display Area	Approx. 84.8 × 63.6 (mm)
Resolution	120 dpi (400 x 300)
Material	Polycarbonate

#### **Environmental Specifications**

Operating Temperature	0 to +40°C
Storage Temperature	-25 to +70°C
Warranty	1 year
Communication	UHF (920MHz) ISO/IEC18000-6 TypeC

General Specifications	
Battery Life	5 years (3 updates/day)
Battery	2 x CR2450 (replaceable)
Reading Range	Approx 1m @250mW
Writing Range	Approx 50cm @250mW
IC	Impinj Monza X-2K
User Memory	2,176 bits
EPC Memory	128 bits
EPD Update time	Approx. 3 seconds
Number of	Approx 100 000 times

Approx. 100,000 times

updating

Others	
Font	JIS X208 1990 (16x16, 24x24, 32x32, 48x48)
Barcode	Code 39, Code 128, JAN, Code 93
QR code	2D QR code version 1 (21x21) to 3 (29x29)
Templates	4 fixed 2 custom