



Document Name: ACR1222U-J User Manual

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Subject to change without prior notice

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Version History

Date	Ву	Changes	Version
2011-10-29	Stanley Wong	Updated the template	2.00.00

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1.0. Introduction

ACR1222U-J is a standalone FeliCa Web-To reader with Li-ion battery. ACR1222U-J is fieldupgradeable which makes URL or other data format customization extremely easy to adapt to special customer's needs. The reader supports the following features:

- USB 2.0 for battery recharge
- Built-in Antenna
- Support FeliCa
- Support Mifare card (Optional)
- 2 Colour LEDs
- Buzzer
- Li-ion battery
- With battery door
- Reading distance is up to 15mm
- RoHS
- CE, FCC and MIC

This document contains information regarding the operation procedure of the ACR1222U-J Felica Web-To Reader.



2.0. Device Operation

2.1. Communication to Felica Phone

The ACR1222U-J Felica Web-To Reader Card Reader with built-in embedded application which detects Felica mobile phones and sends a customizable URL to the detected phones. The Reader distance is up to15 mm.



(Communication between Felica Phone and Web-To Reader)

- 2 LEDs and 1 Buzzer to show the reader's status:
- 1 LED for operation status
- 1 LED for battery status
- A "Beep" sound will be heard after URL transfer completion



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- Reader switch-on/off and URL selection by turning the left button.
- Mini USB socket for battery charge-up, customizable URL transfer to Reader and firmware upgrade



- Li-ion battery replaceable by opening the backside battery door



- Activation button to re-activate the reader from "sleep mode"





2.2. URL Update

- URL update tool is provided for customizable URL transfer to the Web-To reader through the Mini USB interface

ACR122U-TMSR URI	L Update Tool			>
eader: ACS ACR1222	U FeliCa Reader 0		•	Connect
URL (Ascii Input) —— URL1			Encryption Parameter	
http://acs-japan.jp/enc	=!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		Sn: 1058 Fixed Const:	910079
		Lock	Flash Counter 0 - RAM Counter:	0
http://acs-iapan.i	p/enc=!!!!!!!!!!!!!!!!!		Random Number [09]	0
	- Auu Enerypteu Code	Add Sn	45 68 90 22 2	
IRL2			0 1 2 3 4	
http://acs-japan/enc=!!	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!&Sn=`````	Edit	93 71 63 23 11 5 6 7 8 9	Read
nttp://acs-japan/e	nc=!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		Parameter (Hex Input)	
ing made japanio	Add Encrypted	Add Sn 1	82A882B782B782DF835483438367	
	Gode	1100 011	0220020702070207030403400007	
	URL1 C URL2	Check		Edit
APDU Log				
12121212124536E3D6 42 [5401024E003E006874 2121212124536E3D60 415101024B003B0068 12126536E3D606066 43 [5101024B003B00687	0606060606082A882B782B7 474703A2F2F6163732D6A61 606060606082A882B782B78 17474703A2F2F6163732D6A6 0606082A882B782B782B782DF83 474703A2F2F6163732D6A61 606082A882B782B782DF835	82DF88548343836 70616E2E6A702F6 2DF835483438367 3170616E2F656E6 35483438367E98B 70616E2F656E63	56E633D2121212121212121212121212121212121212	2121212121212 12121212121212 =
				a. 1
				Clear

Warning

FCC caution:

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.

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