

NXP MIFARE Classic® 1K

ABS RFID Key Fob Tag

AZKF-S50-ABS



Key Features

Operating Frequency
HF 13.56MHz

Chip Type
NXP MIFARE Classic® 1K

International Standard
ISO/IEC 14443-A

EEPROM Memory
1 Kbyte

R/W Availability
R/W

Certificate
WEEE directive

Characteristics
Waterproof

1. Product Overview

The MIFARE Classic® EV1 contactless IC represents the latest evolution of the MIFARE Classic product family and is suited for using in public transportation. Our ABS RFID key fob with NXP MIFARE Classic 1K chip features an ABS housing with a large-memory RFID chip, making it suitable for public transportation, hospitality management, etc.

2. Product Parameters

2.1 Physical Characteristics

SKU	AZKF-S50-ABS					
Material	ABS					
Model No.	ABS-01	ABS-02	ABS-03	ABS-06	ABS-08	ABS-08 (slotless)
Size	44×31×5mm	35×28×4.8mm	40×32×3.8mm	51×32×5.9mm	37×30×8mm	37×30×8mm
Color	<div><div><div>Red</div><div>Yellow</div><div>Blue</div><div>Black</div></div><div><div>Grey</div><div>Green</div><div>Orange</div></div></div>	<div><div><div>Red</div><div>Yellow</div><div>Blue</div><div>Black</div></div><div><div>Grey</div><div>Green</div><div>Orange</div></div></div>	<div><div><div>Red</div><div>Yellow</div><div>Blue</div><div>Black</div><div>White</div></div><div><div>Grey</div><div>Green</div><div>Orange</div><div>Brown</div><div>Light Green</div></div></div>	<div><div><div>Red</div><div>Yellow</div><div>Blue</div></div></div>	<div><div><div>Red</div><div>Yellow</div><div>Blue</div><div>Black</div></div><div><div>Grey</div><div>Green</div><div>Orange</div><div>Light Green</div></div></div>	<div><div><div>Red</div><div>Yellow</div><div>Blue</div><div>Black</div></div><div><div>Grey</div><div>Green</div><div>Orange</div><div>Light Green</div></div></div>
Weight	5g/piece	4g/piece	4g/piece	5.5g/piece	5g/piece	5g/piece

2.2 Packaging

Format	Packed in box					
Quantity	50 pieces/bag, 1500 pieces/carton	100 pieces/bag, 2500 pieces/carton	100 pieces/bag, 2500 pieces/carton	50 pieces/bag, 1500 pieces/carton	50 pieces/bag, 2000 pieces/carton	50 pieces/bag, 2000 pieces/carton
Carton Dimension	49×24×20cm					
Weight	N.W. 7.5KG/carton, G.W. 8.5KG/carton	N.W. 10KG/carton, G.W. 11KG/carton	N.W. 10KG/carton, G.W. 11KG/carton	N.W. 8.25KG/carton, G.W. 9KG/carton	N.W. 10KG/carton, G.W. 11KG/carton	N.W. 10KG/carton, G.W. 11KG/carton

2.3 Technical Parameters

Operating Frequency	13.56MHz
Communication Rate	106 kbit/s
Communication Protocol	ISO/IEC 14443-A, up to layer 3
Anticollision	Bit-wise
Reading Distance	2-10cm
Recognition Time	<100ms



2.4 Chip Characteristics

Chip Manufacturer	NXP
Chip Family	MIFARE Classic®
EEPROM Size	1K byte
Write Endurance	200,000 times
Data Retention	10 years
Organization	16 sectors with 4 blocks
Unique Serial Number	4-byte NUID or 7-byte UID
4-byte Random ID	Yes (7B UID versions only)
Random Number Generator	Yes
Access Keys	2 Crypto1 keys per sector
Access Conditions	Per sector
Cryptography	Crypto1

2.5 Additional Information

Operating Environment	-20°C to +80°C
Application	Public transportation Hospitality management

3. Size and Specification Drawing

