

EOS-970 MIFARE UL C

T A G E O S

Datasheet

Reliable High Performance for Public Transport and Ticketing

The EOS-970 MIFARE® UL C offers outstanding performance when embedded in smart tickets or smart cards. With its proven IC and an antenna design that combines the best features of market-leading solutions, the HF/NFC inlay is suitable for a wide range of public transportation and event ticketing applications, as well as customer loyalty applications.

The EOS-970 MIFARE UL C is equipped with an advanced member of NXP's MIFARE product family, the MIFARE Ultralight® C (MF0ICU2) IC from NXP. The IC was specifically developed for use in contactless smart tickets or smart cards in combination with Proximity Coupling Devices (PCD) and complies to the ISO/IEC 14443 Type A standard. With its intelligent anticollision function, MF0ICU2 is primarily designed for limited use applications such as public transportation, event ticketing and loyalty applications.



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The EOS-970 MIFARE UL C is available in plastic-face delivery format.

Tageos was one of the first companies to qualify for ARC Quality Certification for its manufacturing operations from Auburn University RFID Lab.

Like all Tageos' RFID products, EOS-970 MIFARE UL C complies with ISO 9001:2015 Quality Management System and ISO 14001:2015 Environmental Management System, as well as Environmental Directives RoHS and REACH, utilizing sustainable manufacturing processes and materials, such as FSC®-certified paper whenever possible.

Overview

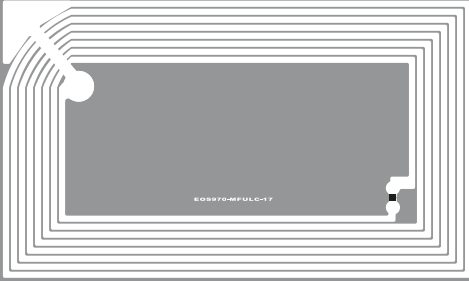
IC:	NXP MFULC (120µm)
User Memory:	1152 bit
UID:	7 byte (56 bit)
Frequency Band:	13.56 MHz
Protocol:	ISO/IEC 14443-A (Proximity) / Type 4 Tag

Application Areas

- Hospitality & Leisure
- Public Transportation
- Loyalty Cards



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FSC® C166692



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Technical Overview

	Plastic-face
Product Code	9700000009
Antenna Size	45 x 76 mm 1.77 x 2.99 in
Finish Size	50 x 80 mm 1.97 x 3.15 in
Web Width	54.00 ± 1 mm 2.126 ± 0.04 in
Pitch	83.82 ± 1 mm 3.300 ± 0.04 in
FSC® Certification	-
Antenna Material	Aluminium
Front Face	PP White
Inlay Substrate	PET Clear 50µm
Inlay Adhesive	permanent
Liner	Paper
Operating Temperature	-40°C / +85°C -40°F / +185°F @20% to 90% RH
Shelf Life	2 years @ +25°C/40%RH
Final Inspection	100% tested



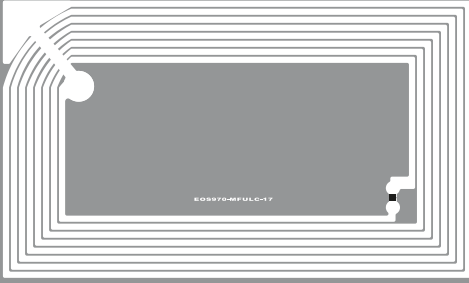
Contact:

Tageos SAS (HQ) . 1340 rue de Pinville . 34000 Montpellier . France . sales@tageos.com



Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** Observe standard storage and handling practices to minimize Electro Static Discharge. Tageos reserves the right to change its products and services at any time without notice. As our products are used in circumstances beyond our control, we cannot be held liable for any damages caused through their use. This is a general purpose product not designed or intended for any specific application.

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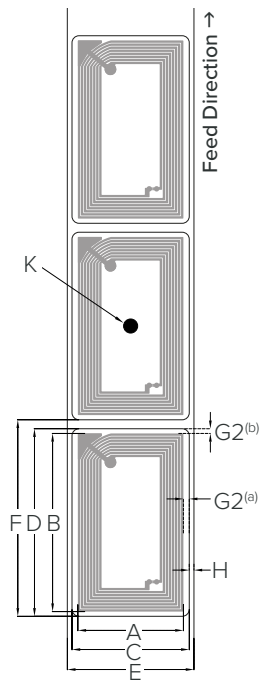


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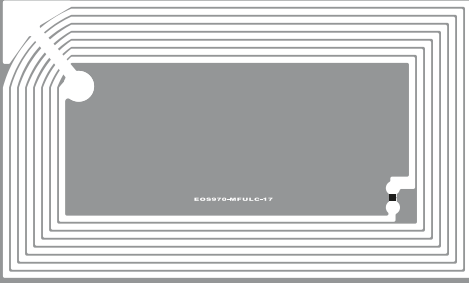
Product Specifications

Mechanical Dimensions



Plastic-face

Product Code	9700000009		
Antenna Size	A x B	45 x 76 mm / 1.77 x 2.99 in	
Finish Size	C x D	50 x 80 mm / 1.97 x 3.15 in	
Web Width	E	54.00 ± 1 mm / 2.126 ± 0.04 in	54.00 ± 1 mm / 2.126 ± 0.04 in
Pitch	F	83.82 ± 1 mm / 3.300 ± 0.04 in	
Antenna to Web Edge	G1	-	
Antenna to Die-cut	G2	2.5 ± 1 mm / 0.098 ± 0.04 in ^(a)	2.0 ± 1 mm / 0.079 ± 0.04 in ^(b)
Die-Cut to Web Edge	H	2.0 ± 1 mm / 0.079 ± 0.04 in	
Antenna Gap	I	-	
Converting Spot	J	-	
Bad Mark	K	Ø 6.0 mm / 0.236 in	
Interleave	L	No	
Registration Mark (RM)	M	-	
RM Position	N	-	



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Packing Details

	Plastic-face
Product Code	9700000009
Delivery Format	Roll (single row)
Core Inner Diameter	76 mm / 2.99 in
Roll Outer Diameter	212 mm / 8.35 in
Unwinding Direction	Inlay on outside of roll
Standard Roll Size	1 500 (-0% +1.5%)
Min. Guar. Yield/Roll	98.5%
Box Dimensions	26.0 x 26.0 x 37.0 cm / 10.24 x 10.24 x 14.57 in
Roll/Box	6
Inlay/Box	9 000
Box Gross Weight	9.44 kg / 20.82 lbs
Pallet Dimensions	120 x 80 x 126 cm / 47.2 x 31.5 x 49.6 in
Boxes/Pallet	36
Inlay/Pallet	324 000
Pallet Gross Weight	365 kg / 805 lbs

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