

Sustainability Works.



RFID as a Key Technology for the Internet of Things Helps to Address the **UN Sustainability Goals**

“84% of IoT deployments are currently addressing, or have the potential to address, the Sustainable Development Goals as defined by the United Nations.”



Source: World Economic Forum “Internet of Things Guidelines for Sustainability”, January 2018

Tageos Looks Holistically at **Sustainability** and Its Three Dimensions



“Meeting the needs of the present without compromising the ability of future generations to meet their own needs.”

We Care

We have a **defined set of sustainability goals**, aiming for a **positive total contribution to the health & well-being of our planet**, focusing on **3 key areas** throughout the value chain:

Environmental

- Use natural resources with **care**
- **Combat** global warming
- **Minimize** waste & plastic consumption

Social

- **Care** about our employees
- **Respect** local communities
- Conduct business **ethically**

Economic

- Enable **circular** economy applications
- Support our customers' **sustainability** goals
- Choose '**green**' suppliers and partners



Tageos' **Sustainability** Framework in Detail

🌱 RFID inlays with **recyclable** or **biodegradable** materials for minimal residual waste at the end of product life.

🌱 Lifecycle Assessment of the **Green House Gas (GHG) footprint** of our products and systematic research for new technologies to minimize further.

Clear and defined initiatives and programs with a **commitment** to perform **Life Cycle Assessments** per ISO-14040/44 and ISO-14001 standards

🌱 Leveraging **sustainable business models** starting with **re-using materials** and **returning** production remains to suppliers.

🌱 Create highly sustainable manufacturing sites:

- “Green” energy sources
- Reduce water consumption
- More efficient assembly processes
- Optimize product packaging and logistics

A Passion for Sustainability

Our *EOS Zero™* RAIN RFID inlays and tags are made of fully recyclable paper to strongly reduce waste and plastic consumption and to help drive **sustainability** programs globally.

- Antennas and chips assembled on paper face
- 100% recyclable paper substrate
- Antennas free of heavy metals and free of conflicts materials
- 100% plastic-free products
- Lowest possible environmental impact
- Fully compliant with environmental certifications



When high quality and innovation meet best-in-class performance in sustainable products— that's 100% commitment to the highest ecological and sustainable actions and values, with zero tolerance.



The mark of
responsible forestry
FSC® C166692



Innovations for a Greener World

EOS Zero™ Base, *Zero Plus* and *Zero Max*: Combining variations of latest antenna and manufacturing technologies with highly sustainable component materials:



Up to **70%** less material use and only **one** printable FSC® certified paper layer



Easy **recycling processes** with **FSC® certified paper substrate** biodegradable



Up to **90%** smaller carbon footprint compared to PET material use



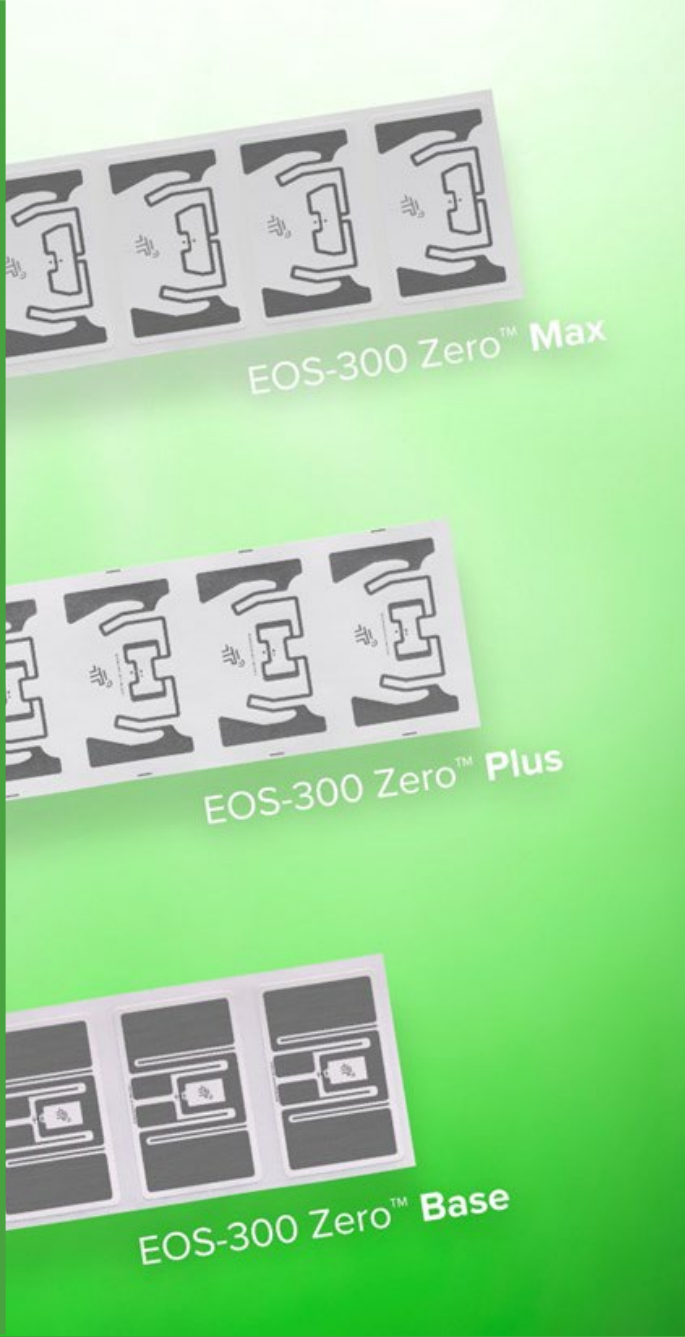
100% plastic-free
100% heavy-metal free
100% conflict-material free



Tageos' Product Family EOS Zero™

Your Choice of Sustainability Options

	Zero Max	Zero Plus	Zero Base	PET Substrate
Sustainability	  	 	  	
Robustness	  	  		  
Performance	  	  	 	  



EOS Zero™ Product Portfolio in Detail

Your **Choice of Sustainability Options**

	Zero Base	Zero Plus	Zero Max
Technology	Glue-less thin film deposition of aluminum antenna on thin paper substrate	Etched aluminum antenna on paper substrate	Precision laser-cut aluminum antenna on paper substrate
Benefits & Features	• Minimum use of raw aluminum & paper • No glue required • Very thin & flexible structure	• Industry standard antenna etching process • Higher robustness & performance	• Very clean & lean inlay production process • Easy recycling of cut aluminum • Higher robustness & performance
Typical Application Requirements	• High sustainability • Unchallenging humidity & temperature levels	• Medium Sustainability • Standard RFID deployments • Longer usage times	• High sustainability • Standard RFID deployments • Longer usage times

arigato kiitos Thank you
merci
grazie beaucoup gracias
tak danke gakiyo
schön

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