

EOS-300 R6

T A G E O S

Datasheet

Performance and Compatibility for High-volume Applications

EOS-300 R6 inlay combines a proven IC with an optimized compact form factor that is ideal for retail hang tags and logistics packaging. It offers high orientation sensitivity and excellent overall performance on diverse materials and in dense tagging environments.

Hence, EOS-300 R6 is perfectly suitable for inventory control in non-food industries such as retail, logistics, and supply chain management. As a small, globally operable inlay, it is the solution of choice for large-scale, worldwide deployments, simplifying the tag supply chain for global enterprises.

It is available in dry, wet and paper-face format.

EOS-300 R6 uses Impinj's Monza R6 IC, which offers high performance across all global frequency standards. The chip also features 96-bit EPC;

permalock and self-adjusting impedance.

Tageos maintains annual ARC Quality Certification for all its manufacturing sites worldwide and was among the first companies to receive certification from the Auburn University RFID Lab in 2020. EOS-300 R6 fulfills ARC specifications F, I, L, O, Q, R, Y2, Z, W5, and W6.

Tageos complies with ISO 9001:2025 Quality Management and ISO 14001:2015 Environmental Management as well as utilizing sustainable manufacturing processes and materials, such as FSC®-certified paper, whenever possible. In addition, all Tageos products meet the RoHS and REACH environmental directives.



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Overview

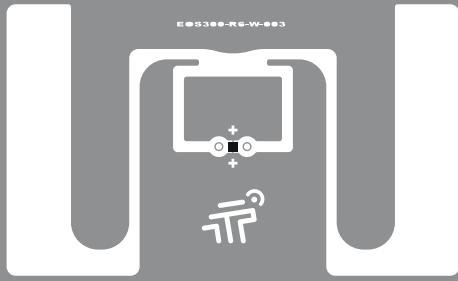
IC:	Impinj Monza R6
EPC/User Memory:	96 bit / - bit
TID Memory:	96 bit incl. 48 bit unique S/N
Frequency Band:	860 - 960 MHz
Protocol:	EPC Class 1 Gen 2 - ISO 18000-63

Application Areas

- Apparel
- Beauty & Cosmetics
- Brand Protection
- Inventory Visibility
- Item Level Tagging



The mark of responsible forestry
FSC® C166692

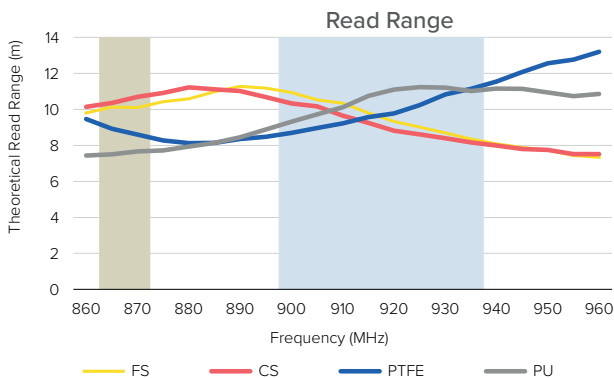


EOS-300 R6

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Technical Overview

	Dry	Wet	Paper-face
Product Code	3000000177	3000000178	3000000179
Antenna Size	50 x 30 mm 1.97 x 1.18 in	50 x 30 mm 1.97 x 1.18 in	50 x 30 mm 1.97 x 1.18 in
Finish Size	-	54 x 34 mm 2.13 x 1.34 in	54 x 34 mm 2.13 x 1.34 in
Web Width	60 ± 1 mm 2.36 ± 0.04 in	60 ± 1 mm 2.36 ± 0.04 in	60 ± 1 mm 2.36 ± 0.04 in
Pitch	38.1 ± 0.2 mm 1.5 ± 0.01 in	38.1 ± 1 mm 1.5 ± 0.02 in	38.1 ± 1 mm 1.5 ± 0.02 in
ARC Approval	F, I, L, O, Q, R, Y2, Z, W5, W6	F, I, L, O, Q, R, Y2, Z, W5, W6	F, I, L, O, Q, R, Y2, Z, W5, W6
FSC® Certification	-	-	-
Antenna Material	Aluminium	Aluminium	Aluminium
Front Face	-	PET clear	Paper TT
Inlay Substrate	PET clear	PET clear	PET clear
Inlay Adhesive	-	Permanent	Permanent
Liner	-	Paper	Paper
Operating Temperature	-40°C / +85°C -40°F / +185°F @20% to 90% RH	-40°C / +85°C -40°F / +185°F @20% to 90% RH	-40°C / +85°C -40°F / +185°F @20% to 90% RH
Shelf Life	2 years @ +25°C/40%RH	2 years @ +25°C/40%RH	2 years @ +25°C/40%RH
Final Inspection	100% tested	100% tested	100% tested

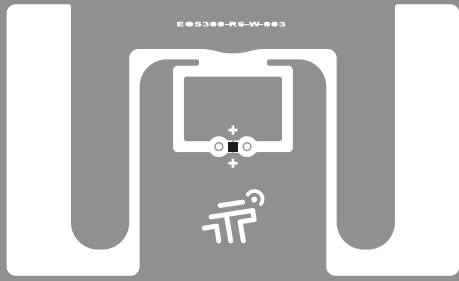


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Graphs: All the graphs are indicative; performance in real life applications may vary. The data has been determined based on calculations for transmitters with a normal output power level and respective IC silicon. **Storage & handling precautions:** 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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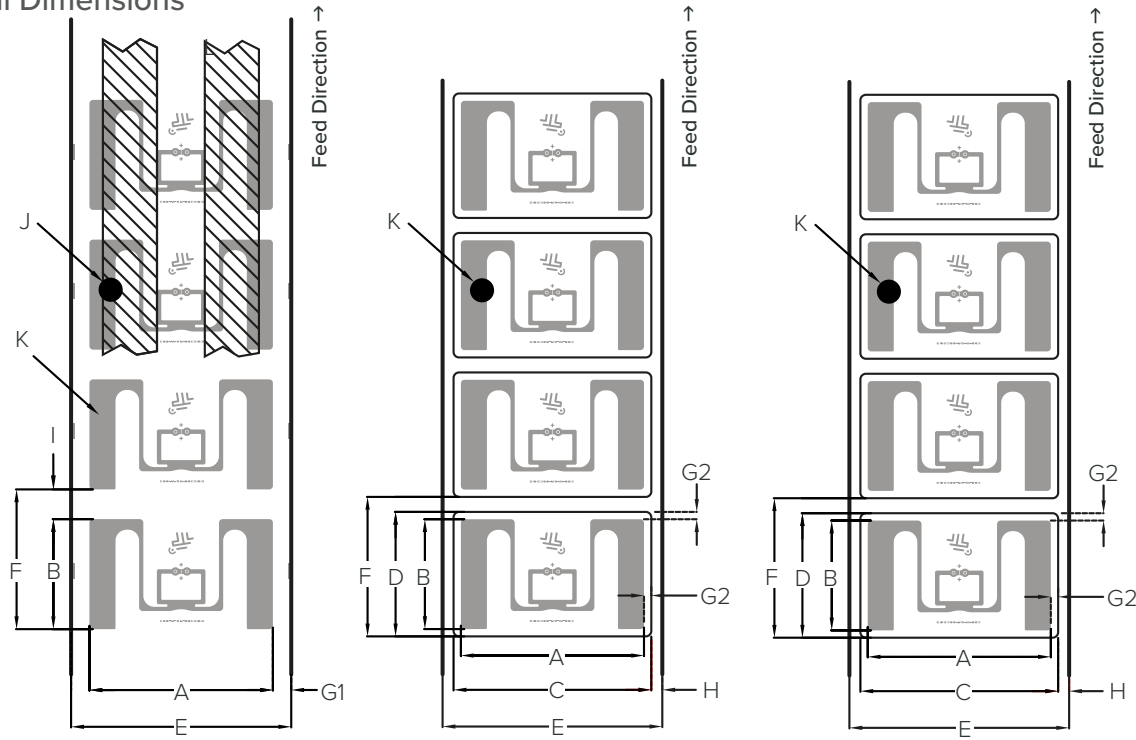


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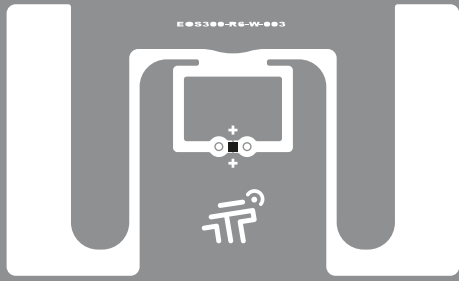
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Product Specifications

Mechanical Dimensions



	Dry	Wet	Paper-face
Product Code	300000177	300000178	300000179
Antenna Size	A x B 50 x 30 mm / 1.97 x 1.18 in	50 x 30 mm / 1.97 x 1.18 in	50 x 30 mm / 1.97 x 1.18 in
Finish Size	C x D -	54 x 34 mm / 2.13 x 1.34 in	54 x 34 mm / 2.13 x 1.34 in
Web Width	E 60 ± 1 mm / 2.36 ± 0.04 in	60 ± 1 mm / 2.36 ± 0.04 in	60 ± 1 mm / 2.36 ± 0.04 in
Pitch	F 38.1 ± 0.2 mm / 1.5 ± 0.01 in	38.1 ± 1 mm / 1.5 ± 0.02 in	38.1 ± 1 mm / 1.5 ± 0.02 in
Antenna to Web Edge	G1 5 ± 1 mm / 0.20 ± 0.04 in	-	-
Antenna to Die-cut	G2 -	2 ± 1 mm / 0.08 ± 0.04 in	2 ± 1 mm / 0.08 ± 0.04 in
Die-cut to Web Edge	H -	3 ± 1 mm / 0.12 ± 0.04 in	3 ± 1 mm / 0.12 ± 0.04 in
Antenna Gap	I 8.1 mm / 0.32 in	-	-
Converting Spot	J 71 x 30 mm / 0.28 x 1.18 in, antenna section can be used	-	-
Bad Mark	K Ø 6 mm / 0.24 in	Ø 6 mm / 0.24 in	Ø 6 mm / 0.24 in
Interleaves	L Yes	No	No



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Packing Details

	Dry	Wet	Paper-face
Product Code	3000000177	3000000178	3000000179
Delivery Format	Roll (single row)	Roll (single row)	Roll (single row)
Core Inner Diameter	76 mm / 2.99 in	76 mm / 2.99 in	76 mm / 2.99 in
Roll Outer Diameter	308 mm / 12.13 in	340 mm / 13.39 in	207 mm / 8.14 in
Unwinding Direction	Inlay on outside of roll	Inlay on outside of roll	Inlay on outside of roll
Standard Roll Size	18 000 (-0% +1.5%)	13 000 (-0% +1.5%)	3 000 (-0% +1.5%)
Min. Guar. Yield/Roll	99%	99%	99%
Box Dimensions	39.5 x 39 x 17 cm / 15.56 x 15.35 x 6.69 in	39.5 x 39 x 17 cm / 15.56 x 15.35 x 6.69 in	26 x 26 x 37 cm / 10.24 x 10.24 x 14.57 in
Roll/Box	2	2	5
Inlays/Box	36 000	26 000	15 000
Box Gross Weight	9.04 kg / 19.93 lbs	11.58 kg / 25.53 lbs	9.30 kg / 20.50 lbs
Pallet Dimensions	120 x 80 x 151 cm / 47.2 x 31.5 x 59.4 in	120 x 80 x 151 cm / 47.2 x 31.5 x 59.4 in	120 x 80 x 126 cm / 47.2 x 31.5 x 49.6 in
Boxes/Pallet	48	48	36
Inlays/Pallet	1 728 000	1 248 000	540 000
Pallet Gross Weight	459 kg / 1012 lbs	581 kg / 1 281 lbs	360 kg / 794 lbs

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