

EOS-654 BLE G3

# T A G E O S

## Datasheet

### Battery-Free BLE Inlay for Precise Temperature and Location Tracking

The EOS-654 BLE G3 inlay delivers temperature and location sensing in applications for the retail and supply chain and logistics market segments. Requiring no batteries, it is well-suited for applications including cycle counting, shipment verification, reusable asset tracking, and condition monitoring. It can be converted into a BLE sensing tag known as the Wiliot IoT Pixel, enabling everyday items to connect to the IoT via a Wiliot Gen3 IC.

EOS-654 BLE G3 is available in dry, wet and plastic-face delivery formats.

Wiliot Gen3 ICs leverage a ubiquitous ecosystem of Bluetooth-enabled devices like smartphones and access points to deliver item information, with a dual-band architecture that allows operation across the 2.4GHz and sub-1GHz short-range frequency bands. Wiliot Gen3 chips can deliver real-time, item-level



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data essential for IoT inventory management, enabling traceability and transparency for physical AI solutions via the Wiliot Intelligence Platform.

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.

#### Overview

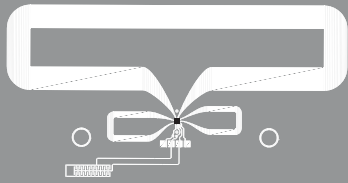
IC:	Wiliot GEN3
Frequency Band:	2.4 GHz / < 1GHz
Protocol:	Bluetooth® Low Energy (LE) 5.2
Security:	AES-128, encryption and authentication

#### Application Areas

- Cold Chain Management
- Food & Beverage
- Logistics
- Temperature Sensing
- Track & Trace



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# EOS-654 BLE G3

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## Technical Overview

	Dry
Product Code	6500000011
Antenna Size	54.45 x 27.52 mm 2.14 x 1.08 in
Finish Size	- -
Web Width	79.50 ± 1 mm 3.130 ± 0.04 in
Pitch	38.10 ± 0.2 mm 1.500 ± 0.01 in
ARC Approval	-
FSC® Certification	-
Antenna Material	Aluminium
Front Face	-
Inlay Substrate	PET Clear 50µm
Inlay Adhesive	-
Liner	-
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
Personalization	ID Barcode (Format: TBA)

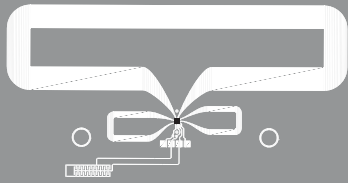
### Contact:

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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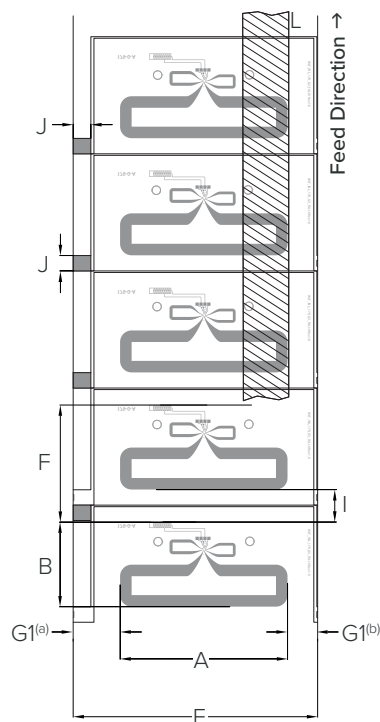


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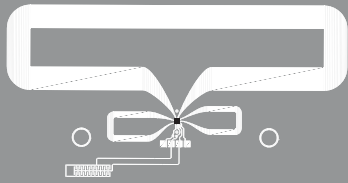
## Product Specifications

### Mechanical Dimensions



Dry

Product Code	6500000011
Antenna Size	A x B 54.45 x 27.52 mm / 2.14 x 1.08 in
Finish Size	C x D - / -
Web Width	E 79.50 ± 1 mm / 3.130 ± 0.04 in
Pitch	F 38.10 ± 0.2 mm / 1.500 ± 0.01 in
Antenna to Web Edge G1	15.25 ± 1 / 0.600 ± 0.04 in <sup>(a)</sup> 9.78 ± 1 mm / 0.385 ± 0.04 in <sup>(b)</sup>
Antenna to Die-cut G2	-
Die-cut to Web Edge H	-
Antenna Gap	I 10.58 mm / 0.417 in
Converting Spot	J 5.75 x 5.50 mm / 0.226 x 0.217 in
Bad Mark	K -
Interleaves	L Yes



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## Packing Details

### Dry

Product Code	6500000011
Delivery Format	Roll (single row)
Core Inner Diameter	76 mm / 2.99 in
Roll Outer Diameter	336 mm / 13.23 in
Unwinding Direction	Inlay on outside of roll
Standard Roll Size	7 500 (-0% +1.5%)
Min. Guar. Yield/Roll	95%
Box Dimensions	39.5 x 39.0 x 17.0 cm / 15.55 x 15.35 x 6.69 in
Roll/Box	1
Inlays/Box	7 500
Box Gross Weight	4.12 kg / 9.09 lbs
Pallet Dimensions	120 x 80 x 151 cm / 47.2 x 31.5 x 59.4 in
Boxes/Pallet	48
Inlays/Pallet	360 000
Pallet Gross Weight	223 kg / 492 lbs

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