Industrial-grade RFID, NFC and Bluetooth® Products & Solutions

beontag

About Beontag

From the science of graphic and label materials, RFID and wireless IoT enablers, we create solutions across the value chain to deliver digital transformation for businesses around the world.

As a global leader in RFID and wireless IoT solutions, sustainability is deeply embedded in Beontag's mission and operations. With a presence in over 40 countries, 7 R&D centers, and more than 2,000 dedicated employees, we relentlessly innovate to develop cutting-edge technologies that enable our customers to achieve wtheir ESG goals.

By pioneering the use of renewable and sustainable materials to replace non-renewable inputs, Beontag acts as a key ESG enabler across our clients' value chains. Our transformative solutions are designed to seamlessly connect items, unlocking new levels of efficiency and providing complete end-to-end traceability, empowering businesses to optimize their operations, reduce waste, and make data-driven decisions to minimize their environmental footprint.

Durable on-metal tags for indoor and outdoor applications

Steelwave family offers various products for indoor and outdoor applications. This innovative and durable product family offers versatile attachment methods, small footprints, flexibility and performance that will ensure the successful deployment of asset tracking projects with diverse requirements.

	Steelwave Classic	Steelwave Flex	Steelwave Micro II	Steelwave HF
Type	RAIN RFID	RAIN RFID	RAIN RFID and HF/NFC	HF/NFC
Dimensions	115 x: 30 x 3.9 mm 4.53 x 1.18 x 0.15 in	55 x 25 x 2.2 mm 2.17 x 0.98 x 0.09 in	38 x 13 x 4.5 mm 1.5 x 0.51 x 0.18 in	25 x 25 x 0.46mm / 0.98 x 0.98 x 0.02in
Read Range	Up to 20 m / 65 ft (regional)	Up to 8 m / 26 ft (global)	Up to 7 m / 23 ft (global)	Up to a few cm with mobile phone
Special features	Printing protected with over-lamination against chemicals. Great read range with thin structure.	Global, VDA compliant on-metal label with flexible structure for parts with curved surfaces .	Versatile attachment options with adhesives and holes for cable tie. Optimized for IT assets.	Proven reliability for harsher environments with industrial grade materials. Two IC options available.

Beontag Steelwave

The most rugged hard tags for industrial environments

Ironside family is optimized for metallic returnable transit items and industrial assets that face varying weather conditions and rough handling. Patented antenna design with industry-leading performance and extremely robust structure is a combination that ensures smooth asset tracking in most harsh environments. Available with various attachment methods.

	Ironside Classic	Ironside Classic Dual	Ironside Micro	Ironside Slim
Type	RAIN RFID	RAIN RFID and HF/NFC	RAIN RFID and HF/NFC	RAIN RFID
Dimensions	51.5 x 47.5 x 10 mm 2.03 x 1.87 x 0.39 in	51.5 x 47.5 x 10 mm 2.03 x 1.87 x 0.39 in	27 x 27 x 5.5 mm 1.06 x 1.06 x 0.22 in	85 x 21 x 10 mm 3.35 x 0.83 x 0.39 in
Read Range	Up to 20 m / 65 ft (regional/global)	Up to 7 m / 23 ft (global)	Up to 7 m / 23 ft (global)	Up to 17 m / 55 ft (global)
Special features	Shock-resistant TPE enclosure. Temperature resistance up to 125°C.	Shock-resistant TPE enclosure. Temperature resistance up to 125°C.	IP68 Robustness with small footprint. Also available in an HF/NFC variant.	Narrow form factor optimal for metallic containers.

	Ironside Plate	Ironside Flex	Ironside Fin	Ironside Flag
Type	RAIN RFID	RAIN RFID	RAIN RFID	RAIN RFID
Dimensions	108 x 50.8 x 3.7 mm 4.25 x 2 x 0.15 in	26 x 73 x 4 mm 1.02 x 2.87 x 0.16 in	26 x 75,5 x 22,5 mm 1.02 x 2.97 x 0.89 in	52 x 29 x 14 mm 2.1 x 1.1 x 0.55 in
Read Range	Up to 10 m / 33 ft (global)	Up to 20 m / 66 ft (global)	Up to 15 m / 49 ft (global)	Up to 18 m / 59 ft (global)
Special features	Metal plate tag with extreme durability for visual marking.	Hang tag for hard-to-tag items with industry-leading performance.	Uses a cable tie for easy attachment to tubes and pipes.	IP69K rated robustness combined with unique single-screw attachment.

Beontag Ironside

Industrial grade printable on-metal labels

Silverline family is the industry-leading IP68 classified on-metal label solution for demanding applications. By combining the on-metal performance of hard tags and personalization easiness of labels, the Beontag Silverline family makes the usage of RFID easier and more efficient than ever. Silverlines come with various product sizes to meet the requirements of applications ranging from high read range to small footprint.

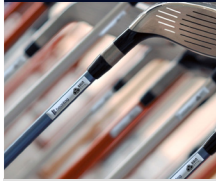|	Silverline Blade II	Silverline Classic II	Silverline Micro II	Silverline Slim II
Type	RAIN RFID	RAIN RFID	RAIN RFID	RAIN RFID
Dimensions	60 x 25 x 1.4 mm 2.36 x 0.98 x 0.055 in	100 x 40 x 1.4 mm 3.94 x 1.57 x 0.05 in	45 x 13 x 1.3 mm 1.77 x 0.51 x 0.05 in	100 x 13 x 1.3 mm 3.94 x 0.51 x 0.05 in
Read Range	Up to 10 m / 33 ft (regional)	Up to 15 m / 50 ft (regional)	Up to 3.5 m / 12 ft (regional)	Up to 7 m / 23 ft (regional)
Special features	Special adhesive for all surfaces. Industry-leading performance-to-size ratio.	Large space for visual printing. Durable PET facestock. Adhesive optimized for metals.	Great performance-to-size ratio. Adhesive optimized for metals.	Narrow form factor combined with good on/off metal performance. Adhesive optimized for metals.

Beontag Silverline

High temperature tags with industrial grade reliability

Designed with the extreme reliability as the top priority. Heatwave family is the outcome of more than ten years of development of high temperature tags with proven reliability in the industrial applications including automotive paint shop.

	Heatwave Flag Printable	Heatwave Tough
Type	RAIN RFID	RAIN RFID
Dimensions	76 x 55 x 0.32 mm 2.99 x 2.17 x 0.01 in	50 x 30 x 3 mm 1.97 x 1.18 x 0.12 in
Read Range	Up to 19 m / 62 ft (global)	Up to 9 m / 30 ft (regional)
Special features	High temperature resistant printable tag for on and off metal applications.	Hard tag for metallic surfaces. Peak temperature up to 250°C for 50min.

Beontag **Heatwave**

Cost engineered tags for fast and reliable identification in high volumes

Beontag Go products are designed with cost efficiency in mind.. They are the go-to choice for fast and reliable logistics applications that require unique features such as reading from all angles, eco-friendly paper based structure, VDA compliancy or tagging challenging specialty retail categories such as sports equipment, beauty and personal care items.

	Ferrowave Classic	Ferrowave Flag
Type	RAIN RFID	RAIN RFID
Dimensions	100 x 17 x 1.1 mm 3.94 x 0.67 x 0.04 in	46 x 21 x 0.2 mm 1.81 x 0.83 x 0.01 in
Read Range	Up to 5 m / 16 ft (regional)	Up to 22m / 75 ft (Global)
Special features	Optimized for high volume on-metal logistics.	Versatile on-metal label with great performance.

	Ferrowave Micro Global	Ferrowave Micro Regional
Type	RAIN RFID	RAIN RFID
Dimensions	45 x 8 x 1.5 mm 1.77 x 0.31 x 0.06 in	58 x 6 x 1,3 mm 2.28 x 0.24 x 0.05 in
Read Range	Up to 4 m / 23 ft (global)	Up to 5,5m (ETSI /FCC)
Special features	Small on-metal label optimized for specialty retail items.	Small on-metal label optimized for beauty and personal care items

Beontag Ferrowave

Washable tags for plastic returnable items

Beontag Carrier family is designed especially for plastic returnable transit item (RTI) tracking. They are all IP68 classified and can withstand washing processes while maintaining their strong grip on plastic surfaces. All labels can be printed and encoded with standard RFID printers or be ordered pre-personalized.

	Carrier Classic	Carrier Pro	Carrier Tough Slim	Carrier eWave
Type	RAIN RFID	RAIN RFID	RAIN RFID	RAIN RFID
Dimensions	73 x 8 x 0.2 mm 2.87 x 0.31 x 0.01 in	92 x 24 x 0.2 mm 3.62 x 0.94 x 0.01 in	122 x 18 x 2 mm 4.8 x 0.71 x 0.08 in	40 x 12 x 0,2 mm / 1.57 x 0.47 x 0.01 in
Read Range	Up to 18m/59ft (global)	Up to 23m/75ft (global)	Up to 20m / 65 ft (global)	Plastic: up to 9 m / 30 ft Glass: up to 5 m / 16 ft Ceramic plate: up to 7 m / 23 ft
Special features	Narrow design ideal for containers with limited space.	More space for printing. Great performance even when close to high liquid content goods.	For the harshest of environments. Printing protected under plastic cover.	Microwave oven and dishwasher compliant label for reusable packaging.

	Carrier HF	Carrier Dual	Carrier KLT
Type	HF/NFC	RAIN RFID and HF/NFC	RAIN RFID
Dimensions	25 x 25 x 0.2 mm 0.98 x 0.98 x 0.01 in	70 x 36 x 0.2 mm 2.75 x 1.41 x 0.01 in	102 x 30 x 0,2 mm / 4.01 x 1.18 x 0.01 in
Read Range	Up to a few cm on mobile phone	Up to 11m/36ft (global) and up to a few cm on mobile phone	Up to 23 m / 75 ft (global)
Special features	HF/NFC label solution for harsher environments with industrial-grade materials. Two IC options available.	Dual-frequency label with shared RAIN RFID and NFC memory for logistics and consumer interaction.	Special washable label for returnable plastic containers with great performance even when close to challenging materials.

Beontag Carrier

Reliable vehicle identification for parking, vehicle registration and toll collection

Beontag Cruiser family is designed for Automatic Vehicle Identification (AVI) and Electronic Vehicle Registration (EVR) applications. Cruiser labels can withstand varying weather conditions and washing processes while remaining tamper-proof. Beontag delivers also fully personalized Cruiser products against customer requirements.

	Cruiser Headlamp	Cruiser Windshield	Cruiser Windshield Crypto
Type	RAIN RFID	RAIN RFID	RAIN RFID
Dimensions	90 x 11.5 x 0.2 mm 3.54 x 0.45 x 0.01 in	92 x 26 x 0.3mm / 3.62 x 1.02 x 0.01	107 x 21.5 x 0.2 mm 4.21 x 0.85 x 0.01 in
Read Range	Up to 18m / 59ft (global)	Up to 14m/46ft (global)	Up to 10 m / 33 ft (global)
Special features	Transparent tamper-proof structure with IR protection	Full customization and encoding options with tamper-evident structure.	Fast and secure communication with extensive security features.

Beontag **Cruiser**

Industrial Bluetooth®
Low Energy beacons for
demanding environments

Beontag Viking Bluetooth® Low-Energy (BLE) Industrial beacons track the location of assets and people, with optional sensors for capturing environmental data.
Viking BLE beacons are joining passive RFID in the asset management and tracking space. Beontag designed the Viking product family to be a modular BLE beacon family that raises the bar for industrial, indoor and outdoor, asset tracking to gain real time location and conditioning visibility.

	Viking Classic	Viking Tough	Viking Slim
Type	BLE, Quuppa, Wirepas	BLE, Quuppa, Wirepas	BLE, Wirepas
Dimensions	56 x 55 x 19 mm 2.2 x 2.13 x 0.75 in	56 x 55 x 21mm 2.20 x 2.13 x 0.83 in	74,5 x 32 x 14,5 mm 2.95 x 1.26 x 0.57
Read Range	Up to 100 m 330 ft	Up to 100 m 330 ft	Up to 100 m 330 ft
Special features	Optimized performance for indoor and outdoor industrial environments.	The most rugged BLE Beacon for really harsh and demanding environments.	Replaceable battery with 3-4 years of lifetime. Optimized for hospital and industrial environments.

	Viking Micro	Viking Hybrid
Type	BLE	BLE, RFID UHF
Dimensions	36 x 26 x 6 mm 1.4 x 1 x 0.23 in	63 x 47 x 28 mm/ 2.48 x 1.85 x 1.02 in including bracket
Read Range	Up to 70m at 0dBm	BLE: up to 70m at 0dBm RFID: up to 6m
Special features	Designed for high volume small industrial asset tracking use cases in harsh industrial environments.	Quick to deploy for tracking your container logistics.

Beontag Viking

Not finding the tag you need for your project from our standard product offering?

Beontag DesignStudio provides you with uniquely new products or standard product modifications for your specific needs, whether simple or complex.
Let's co-create together a BLE, RFID or NFC product that meets your requirements

	TireTag	Survivor	Captura Flash	Crosswave Neo
Type	RAIN RFID	RAIN RFID	RAIN RFID	RAIN RFID
Dimensions	37 mm x 1,4 mm / 1.46 x 0,055 in	155 x 26 x 14,5 mm 6.1 x 1.02 x 0.57 in	61 x 20 x 10 mm 2.4 x 0.78 x 0.4 in	Various, see datasheet
Read Range	Up to 4-6 m / 13 - 19 ft (global)	Up to 27m / 90ft (regional)	Up to 12 m / 40 ft (global)	Up to 10 m / 33 ft (global)
Special features	ISO SO20909 and 20910 compliant embedded TireTag with great performance.	All-surface tag for logistics, transportation, and yard management applications with top performance.	Sealtag with a tamper-proof structure. No tools needed for attachment.	360-degree readability with modular dimensions and latest IC generation.

	Paper Reel Label	ESD On-Metal	eKanban SLC and GTL	Ironside Slim Curved
Type	RAIN RFID	RAIN RFID	RAIN RFID	RAIN RFID
Dimensions	96 x 16 x 0.2 mm / 3.78 x 0.63 x 0.01 in	70 x 30 x 1,2 mm 2.75 x 1.18 x 0.05 in	SLC: 208 x 80 x 0.2mm / 8.19 x 3.15 x 0.01" GTL: 208 x 150 x 0.2 mm / 8.19 x 5.91 x 0.01"	82 x 16 x 10,5mm / 3,2 x 0,6 x 0,4"
Read Range	Up to 10m / 33 ft	Up to 14m / 46 ft (regional)	See datasheet	See datasheet
Special features	Label optimized for high-dielectric materials and specifically designed for paper reel core tagging.	On-Metal Label designed to work on challenging ESD materials as well.	RFID enabled Kanban cards, VDA 5501 and VDA 4994 compliant.	Durable hard tag for global asset tracking of different round obstacles & surfaces with excellent all-around performance.

Beontag DesignStudio

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Enabling **the future.**

For more information,
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