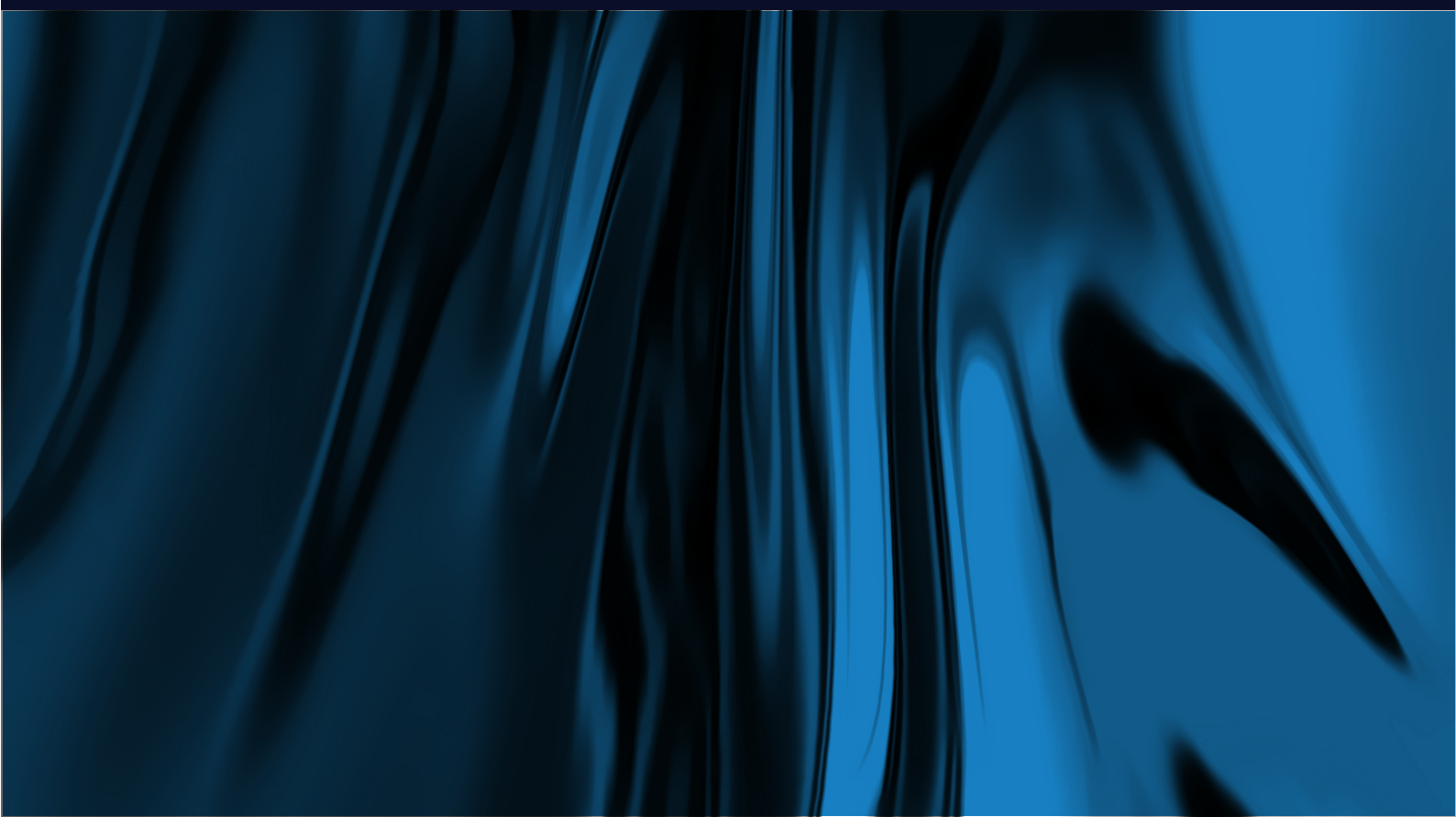




Industrial-grade RFID, NFC and Bluetooth® Products & Solutions



About Beontag

From the science of graphic and label materials to RFID and wireless IoT enablers, Beontag creates solutions that drive digital transformation across the value chain 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, Beontag relentlessly innovates to develop cutting-edge technologies that enable customers to achieve their ESG goals.

By pioneering the use of renewable and sustainable materials to replace non-renewable inputs, Beontag acts as a key ESG enabler across customers value chain. Beontag's transformative solutions seamlessly connect items, unlocking new levels of efficiency and enabling complete end-to-end traceability. This empowers businesses to optimise operations, reduce waste and make data-driven decisions to minimise their environmental footprint.

Durable on-metal tags for indoor and outdoor applications

The Steelwave family features various products for indoor and outdoor applications. This innovative and durable product family offers versatile attachment methods, small footprints, flexibility and high 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.





The most rugged hard tags for industrial environments

The Ironside family is optimized for metallic returnable transit items and industrial assets exposed to varying weather conditions and rough handling. Its patented antenna designed, with industry-leading performance and extremely robust structure, ensures smooth asset tracking in the harshest environments. Available with various attachment methods.

	Ironside Classic	Ironside Micro	Ironside Slim	Ironside Flag
Type	RAIN RFID	RAIN RFID and HF/NFC	RAIN RFID	RAIN RFID
Dimensions	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	52 x 29 x 14 mm 2.1 x 1.1 x 0.55 in
Read Range	Up to 20 m / 65 ft (regional/global)	Up to 7 m / 23 ft (global)	Up to 17 m / 55 ft (global)	Up to 18 m / 59 ft (global)
Special features	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.	IP69K rated robustness combined with unique single-screw attachment.
	Ironside Plate	Ironside Flex	Ironside Fin	
Type	RAIN RFID	RAIN RFID and HF/NFC	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	
Read Range	Up to 10 m / 33 ft (global)	Up to 20 m / 66 ft (global)	Up to 15 m / 49 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.	



Industrial-grade printable on-metal labels

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

	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.





High temperature tags with industrial-grade reliability

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

	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.




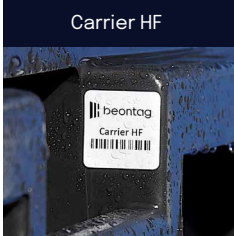

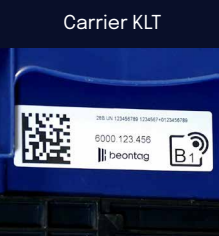
Cost-engineered tags for fast and reliable identification in high volumes

Beontag Ferrowave 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 omnidirectional reading, an eco-friendly paper-based structure, VDA compliance, and the ability to tag challenging specialty retail categories, including sports equipment, beauty products, and personal care items.

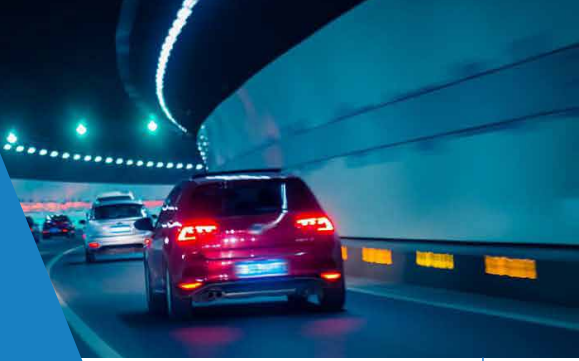
	Ferrowave Classic	Ferrowave Flag
		
Type	RAIN RFID	RAIN RFID
Dimensions	100 x 17 x 1.1 mm 3.94 x 0.67 x 0.04 in	46 x 21 x 0.2 mm 1.81 x 0.83 x 0.01 in
Read Range	Up to 5 m / 16 ft (regional)	Up to 22m / 75 ft
Special features	Optimized for high volume on-metal logistics.	Versatile on-metal label with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

Washable tags for returnable plastic items

The Beontag Carrier family is specially designed 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 ordered pre-personalized.

	Carrier Classic	Carrier Pro	Carrier Tough Slim
			
Type	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
Read Range	Up to 18m/59ft (global)	Up to 23m/75ft (global)	Up to 20m / 65 ft (global)
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.
			
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.

Reliable vehicle identification for parking, registration and toll collection



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

Industrial Bluetooth® Low Energy beacons for demanding environments



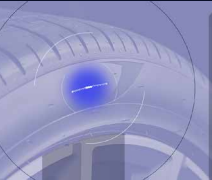






Beontag Viking Bluetooth® Low-Energy (BLE) Industrial beacons track the location of assets and people, with optional sensors for capturing environmental data. Viking BLE beacons are joining passive RFID in the asset management and tracking space. Beontag designed the Viking product family as a modular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

	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.	

Can't find the tag you need for your project in our standard product offering?



Beontag DesignStudio provides you with uniquely new products or standard product modifications for your specific needs, be them simple or complex. Let's co-create 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 S020909 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	
				
Type	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"	
Read Range	Up to 10m / 33 ft	Up to 114m / 46 ft (global)	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.	

UMD Value Add:

Design & Manufacture

- IoT devices and interfaces
- Cables
- Modify products
- Mechanical design and assembly

Professional Services

- Engineering
- Software
- Deployment
- Support

Source

- Data capture and ICT products and from our agencies
- Systems Integration

Full Stack Solution Provider

- Data Carriers (barcode, RFID, sensors)
- Edge devices and gateways
- Own and manage PCI-DSS compliant Data Center
- Middleware and Cloud Application Broker
- Software: cloud, mobile and embedded applications
- Design, deploy and managed services

UMD RFID Services:



RFID Site Surveys



RFID Tag Selection,
Printing, Programming
and Testing



Design and
Construction of RFID
Systems and Portals



Cloud and
Edge Software



Proof of Value Trials



RFID Mobile Devices,
Mobile Device
Management

UMD RFID Benefits For Real-Time Tracking And Productivity:

- Seamless end to end data acquisition
- Streamline inventory management
- Centralised cloud services. Distributed stock inventory and audit functionality
- Ability to track, trace and locate product
- Continuous visibility via frequent RFID stocktakes
- Stocktake accuracy and reduced human error