










PRODUCT COMPARISON CHART

HF: 13.56 MHz / ISO 14443 / NFC*

Compliant with ISO/IEC 18000-3 and other standards.



	DISCS	EMBEDDABLE						SPECIALTY		
										
Product Family	Embeddable RFID	Poly Tag™	Inlays & Labels		Inlays & Labels - On Metal	InLine Tag® Plate	Seal Tag	Epoxy Keyfob	ISO Card	Secure Mobile Device Sticker
Sub-family	Clear Disc	HF	Paper Label	Wet Inlay	OM Label	Asset Tag	eTamper Coin		MIFARE	
Description	Transparent coating resists chemical exposure, shock, vibration and thermal fluctuations	Rugged disc for outdoor applications and other harsh environments. Optinal Trusted Tag® Services enabled.	Custom-imprintable labels to integrate digital touch points onto physical media	Small, thin, translucent self-adhesive; hide discretely behind print media or inside product packaging.	Thin, printable self-adhesive labels for on-metal use	Small on-metal asset tags utilizing HID Trusted Tag® Services for authentic ""proof of presence"". Printable or clear housing options.	Self destructing when removed, eTamper Coin TTS adds a non-replicable identity to each interaction - ideal for ""proof of presence"" applications.	Customer-friendly form keeps credentials at hand; withstands rigors of daily transport in pockets or purses	Standard dimension cards enable access control, cashless payment and related applications	Printable ISO card with detachable sticker that adheres to mobile phones or metal objects for NFC applications
Chip type	MIFARE DESFire EV1/EV2	NTAG 216, HID Trusted Tag	NTAG 213	NTAG 213, HID Trusted Tag	NTAG 213	HID Trusted Tag	MIFARE DESFire EV1, HID Trusted Tag	MIFARE EV1 1K, HID Trusted Tag	MIFARE DESFire EV1/EV2, HID Trusted Tag	MIFARE DESFire EV1
User memory up to	4 KB	888 byte, 8KB	144 byte	144 byte, 8KB	144 byte			8 KB	8 KB	8 KB
Reading distance up to	Near tap		Near tap		Near tap			Near tap		
Other frequencies	LF				UHF			LF	LF, UHF	
Dimensions <small>Refer to datasheets for other available sizes</small>	Ø 0.98 in (25 mm)	Ø 1.34 x 0.31 in (Ø 34 x 8 mm)	Ø 0.9 in (23 mm), Ø 1.1 in (29 mm) or Ø 1.6 in (40 mm)		max. 2.4 x 0.9 x 0.05 in (60 x 24 x 1.2 mm)	1.2 x 2.5 x 0.12 in (30 x 65 x 3.5 mm)"	Ø 1.5 in (39 mm)	1.2 x 1.8 x 0.06 in (30 x 45 x 1.6 mm)	3.4 x 2.1 x 0.03 in (85.6 x 54 x 0.76 mm)	ISO card 3.4 x 2.1 x 0.03 in (85.6 x 54 x 0.84 mm); sticker 1.9 x 1.0 in (48 x 25 mm)
Mount on metal		Yes			Yes	Yes	Yes			Yes
Moisture resistance	IP67	IP69K, IP68	IP67		IP68	IP68		IP67	IP68	IP68
Food compatible										
Operating temperature	-4° to +140° F (-20° to +60° C)	-13° to +185° F (-25° to +85° C)	-4° to +158° F (-20° to +70° C)		-4° to +158° F (-20° to +70° C)	-40° to +185° F (-40° to +85° C)	-13° to +158° F (-25° to +70° C)	-13° to +176° F (-25° to +80° C)	-31° to +122° F (-35° to +50° C)	-31° to +122° F (-35° to +50° C)
Peak temperature	194° F (90° C)	266° F (130° C)	257° F (125° C)		185° F (85° C)			284° F (140° C)	176° F (80° C)	176° F (80° C)
Flame resistant										
Standards <small>Compliant with ISO 18000-3, ISO 14443A and others listed</small>	ISO 14443 NFC Tag Type 4	NFC Tag Type 2 (NTAG 216) NFC Tag Type 4 (Trusted Tag)	ISO 14443 NFC Tag Type 2 (NTAG 213) NFC Tag Type 4 (Trusted Tag)		ISO 14443 NFC Tag Type 2 (NTAG 213)	ISO 14443 NFC Tag Type 4			ISO 14443 NFC Tag Type 4 ISO 10373 ISO 7816-1	ISO 14443 NFC Tag Type 4

* To be NFC Forum Tag Type compliant, tags need to be formatted with an NDEF data structure. The above listed Tag Types 2 and 4 are supported by all known NFC devices. NFC-V Tag Type 5 (ISO 15693) has been officially standardized by NFC Forum in June 2015 and may not be supported by some older NFC devices. These tags can be found on the HF / ISO 15693 Tag comparison chart. Android and Windows 10 Phone typically support tag type 5.



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PLT-02389

Enhanced security potential with HID Trusted Tag® Services

Tags equipped with HID Trusted Tag integrated chips are uniquely programmed to enhance security and efficiency when deployed with HID Trusted Tag® Services. Our cloud-based NFC authentication platform adds unique identities to everyday objects enabling more secure, efficient transactions. Simply tap an embedded or attached HID Trusted Tag with any NFC device. Trusted Tag Services deliver a frictionless authentication experience for "proof-of-presence" applications, including time-and-attendance, brand protection, promotional marketing and Internet of Things programs.

PRODUCT COMPARISON CHART

LF: 125 or 134.2 kHz

	DISCS									EMBEDDABLE				
Product Family	Bin Tag	Epoxy Tag	IN Tag™	IdentifUEL™ Vehicle Tags	LogiTag®		Poly Tag™	Volcano Tag	World Tag®	Brick Tag	Embeddable RFID	Glass Tag	Nail Tag	Plug Tag
Sub-family	LF	LF	LF		120	160	LF			HDX, Nova	LF	LF		
Description	Screw or embed into standard waste collection bins	Thin, rigid, discs can withstand plastic injection molding	Ruggedized discs for severe industrial environments	Small, tamper proof tags for unique identification of vehicles towards Fuel Management Systems (FMS)	Small, thin discs with high chemical and pressure resistance		Extreme-impact resistant discs	For high temperature environments	Cost-effective, general use indoor asset tags	Micro-sized transponders for embedding into assets	Ring and rod shaped chips and antennas for customized enclosures	Compact capsules, resistant to long term immersion. Embeddable into metal or plastic	Glass-fiber nails pound into wood and pallets	Plastic inserts for permanent mounting to waste and other containers
Chip type	Unique; FDX-b BDE; HDX BDE	HITAG S; Unique	HITAG S; Unique	HITAG S	HITAG S; Q5; Unique	Unique	HITAG S; Unique	Q5; Unique	HITAG S; Q5; Titan; Unique	HDX, Nova	EM4305, HDX, HITAG-S, Q5, Unique	EM4305, HDX, HITAG-S, Q5, Unique	Unique	Unique; FDX-b
User memory up to	128 bit	2048 bit	2048 bit	256 bit	2048 bit	64 bit	2048 bit	264 bit	2048 bit	160 bit	2048 bit	2048 bit	64 bit	128 bit
Reading distance up to	Dependent upon reader, environment and application									Dependent upon reader, environment and application				
Other frequencies	HF, UHF	UHF	HF, UHF		HF		HF			HF, UHF	HF	HF		
Dimensions <i>Refer to datasheets for other available sizes</i>	Ø 1.2 x 0.6 in (30 x 15 mm)	Ø 0.8 or 1.18 x 0.04 in (20 or 30 x 1 mm)	Ø 0.8 to 2.0 in (20 to 50 mm); thickness 0.1 in (3 mm)	0.98 x 1.0 x 0.44 in (25 x 25.8 x 11.2 mm)	Ø 0.5 x 0.1 in (12 x 2 mm)	Ø 0.6 x 0.1 in (16 x 3 mm)	Ø 1.34 x 0.31 in (Ø 34 x 8 mm)	Ø 1.0 x 0.2 in (26 x 4 mm)	Ø 0.8 to 2.0 in (20 to 50 mm); thickness 0.1 in (2 mm)	0.5 x 0.2 x 0.1 in (12 x 6 x 3 mm)	Multiple	Ø 0.06 to 0.2 in (1.4 to 4 mm); length 0.3 to 0.9 in (8 to 23 mm)	Ø 0.16 x 1.40 in (4 x 35.5 mm)	Ø 0.35 x 0.75 in (9 x 19 mm); cap Ø 0.6 in (15 mm)
Mount on metal	Yes									Yes				
Moisture resistance	IP67	IP67	IP68, IP69K	IP67	IP68		IP67	IP68		IP68	Customize to meet requirements	IP68	IP67	IP68
Food compatible	Yes													
Operating temperature	-40° to +158° F (-40 to +70° C)	-40° to +185° F (-40° to +85° C)	-40° to +194° F (-40° to +90° C)	-13° to +140° F (-25° to +60° C)	-13° to 185° F (-25° to +85° C)		-13° to +185° F (-25° to +85° C)	-13° to +185° F (-25° to +85° C)	-13° to +158° F (-25° to +70° C)	-40° to +194° F (-40° to +90° C)		-40° to +185° F (-40° to +85° C)	-13° to +185° F (-25° to +85° C)	-13° to +185° F (-25° to +85° C)
Peak temperature	194° F (90° C)	284° F (140° C)	284° F (140° C)		320° F (160° C)		266° F (130° C)	392° F (+200° C)	266° F (130° C)	284° F (140° C)		284° F (140° C)		
Flame resistant	Yes											Yes		
Standards <i>Compliant with standards and others listed</i>	DIN 30745 EN 14803		ATEX EN 60079-0:2009 EN 60079-11:2007 EN 60079-26:2007	ATEX EN 60079-0:2009 EN 60079-11:2007 EN 60079-26:2007	ATEX EN 60079-0:2009 EN 60079-11:2007 EN 60079-26:2007							ATEX EN 60079-0:2009 EN 60079-11:2007 EN 60079-26:2007		EN 14803

A tag for every application

HID can create a custom tag solution to fit your application requirements for chip type, dimensions, programming and materials. You can even embed multiple technologies in a single RFID tag, providing transition paths that connect legacy systems with new roll-outs.



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PRODUCT COMPARISON CHART

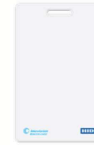


BLE: Bluetooth Smart - 2.4 GHz



BEACONS

BluFi



Product Family	BEEKs™						BluFi™	
Sub-family	Plus	Lite	Industrial	CM v2 / Cooler	Mini / Mini Tamper	Badge	AC (US/EU/UK/AU)	DC (Battery)
Description	BLE beacon without sensors to be used for Proximity Marketing, way-finding and/or real-time location (RTLS).		General purpose industrial beacon for asset real-time location and basic status monitoring of rotating equipment.	Rugged, high-end BLE condition monitoring beacon with embedded sensors to measure temperature, movement and vibration for advanced condition monitoring. Special “Cooler” versions support off-line temperature logging.	Tiny BLE beacon with optional sensors and/or tamper evidence functionality that raises an alert when beacon is removed.	Beacon badge that can be optionally combined with passive RFID card credentials for access control. Typically used for workplace optimization or emergency mustering.	BluFi acts as gateway between BLE beacons and existing WiFi networks to enable cloud based remote management, location and beacon data collection. This model plugs into any standard A/C outlet and features an omnidirectional antenna.	BluFi acts as gateway between BLE beacons and existing WiFi networks to enable cloud based remote management, location and beacon data collection. This model features a rechargeable battery and directional antenna. Optional outdoor housing with solar panel available.
Radio Type	Bluetooth Low Energy 4.1, 2.4 GHz ISM						Bluetooth Low Energy 4.1, Wifi 802.11 b/g/n	
tooth Sensitivity	-97dBm						-98dBm	
Processor Type	ARM Cortex M3 and ARM Cortex M0						ARM Cortex M4 and ARM Cortex M3	
Memory	55KB Flash (512 KB optional)						256KB Flash (100KB free for custom applications)	
Protocols	Eddystone, iBeacon, sBeacon						Eddystone, iBeacon, sBeacon, WiFi	
Power	Up to 8 year battery life	Up to 5 year battery life	Up to 3 year battery life			Up to 4 year battery life	100-240 VAC, 50/60 Hz	USB charger, up to 6 months battery life
Dimensions	2.41 x 1.46 in (61.3 x 37.2 mm)		2.36 × 0.85 in (60 × 21 mm)		1.3 x 0.3 in (34.2 x 8.35 x 2.5 mm)	2.14 × 3.39 x 0.10 in (50 × 86 mm)	2 × 1.5 x 1.5 in (50 × 38 x 38 mm)	3.4 X 3.2 X 1.2 in (86.1 X 82.2 X 31.8 mm)
Affixation	3M VHB adhesive sticker			Epoxy glue	3M VHB adhesive sticker with metal foil	Clip	A/C power plug	Micro USB
Weight	2.7 oz (76 g)	1 oz (28 g)	1.39 oz (37 g)		0.24 oz (7 g)	0.5 oz (14 g)	1.7 oz (48 g)	9.3 oz (264 gr)
Water resistance	IP67						IP67	
Operating temperature	-22° to +170° F (-30° to +77° C)		-13° F to +185° F (-25° C to +85° C)		-13° to +170° F (-25° to +77° C)		-13° to +149° F (-25° to +65° C)	-4° to +158° F (-20° to +70° C)
Withstands Exposure To	Water and UV Resistant						Water	
Compliant with	FCC / CE		FCC / CE / JRF / IC			FCC / CE	FCC/CE/UL/FRE	FCC / CE

Advanced BLE Beacons with sensor technology and multi-protocol support

BEEKs™ Bluetooth Low-Energy (BLE) beacons are among the most advanced beacons in the industry. Being fully Apple iBeacon and Google Eddystone compatible, BEEKs beacons may be used for any standard beacon application that provides location based promotional services to smartphone users. When combined with HID Global's end-to-end IoT ecosystem, that includes BluFi™ BLE to WiFi gateways and the Bluzone™ cloud services, BEEKs can be centrally managed through the cloud to transfer messages, firmware updates and status information remotely. Their unique design allows BEEKs to broadcast reliably even in densely populated WiFi environments.



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