

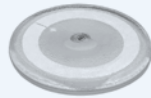

RAIN® RFID (UHF): 860 MHz to 960 MHz

Global EPC Class-1 Generation-2 (C1 G2) UHF RFID protocol for communications.  
Compliant with ISO/IEC 18000-6C and other standards.

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.

A comprehensive reference of RFID tag variations can be found at [www.rfid.com](http://www.rfid.com)

	Discs					Specialty											
																	
Product family	Bin Tag	Epoxy Tag	In Tag	Embeddable RFID		Adept Tag	FIT Tag	IQ Pro Labels			EXO Slim Tag			EXO Tag		EXO Pro Tag	
Sub-family	UHF	UHF	500	Logi Tag 180	MuTRAK	UHF	Ceramic UHF	800P HT	Standard	Ultra	InLine Plate	Standard	Shell+	Standard	Mini	UHF	
Description	Screw or embed into standard waste collection bins	Thin, rigid, surface-printable rectangle. Can withstand plastic injection molding	Versatile disc-shaped RFID tags designed to perform in the toughest conditions.	Highly robust near-field UHF coin for embedding. Withstands high temperatures, liquids and impact.	UHF ultra-small and robust transponders, ideal to identify small items.	High-performance RAIN RFID tags optimized for specific industrial purposes	Micro-sized transponders for tracking small metal assets	Impermeable, wafer-thin sheets, resistant to high heat and torsion. Shape customizable	Highly chemical resistant and thus ideal for plastic returnable transport items.	Optimized for non-metallic flat or slightly curved surfaces. Its special construction ensures a higher durability.	Thin, rigid container tags with large surface to accommodate laser engraving or labels	Wafer-thin UHF asset tags for containers or non-metallic boxes	Low-profile RFID tags ideal for light duty indoor assets tracking. SHELL+ tags are ultrasonic sealed with a plastic back side.	High performance, general purpose transponders. Mount via glue, screw or weld	Small, robust, general purpose transponders	Highly robust, all-purpose RAIN RFID tags mount to any surface material deliver long read ranges	
Chip type	M730	Monza R6-P	G2IM	Monza R6-P	M730	UCODE 8, Monza 4QT, M730, Higgs 9, Monza R6-P, Qstar-2A	Monza R6-P, EM 4124	M730		Monza R6-P	Monza 4E or EM4423 (UHF/NFC)	M730	Monza R6-P, UCODE 8	Monza 4QT, M730	Monza R6	M730, M750, MR6-P, M4QT	
EPC   TID	128 bit   48 bit	96 bit   48 bit	256 bit   96 bit	96 bit   48 bit	128 bit   48 bit	128 bit   48 bit	96 bit   48 bit	128 bit   48 bit		128 bit   96 bit	496 bit   96 bit   1920 bit	128 bit   48 bit	96 bit   48 bit	128 bit   96 bit	96 bit   48 bit	128 bit   48 bit	
User memory up to		64 bit	640 bit	64 bit		512 bit	64 bit			32/64 bit	N/A		64 bit	512 bit			
Reading distance up to	39.3 ft (12 m)	20 ft (6 m)	10 ft (3 m)	10 in (25 cm)	3.9 in (10 cm)	27.9 ft (8.5 m)	13.1 ft (4.0 m)	39.3 ft (12 m)	49.2 ft (15 m)	32.8 ft (10 m)	25 ft (7.5 m) or 13 ft (4 m)	36 ft (11 m)	34.7 ft (10.6 m)	108.2 ft (33 m)	9.8 ft (3 m)	36 ft (11 m)	
Other frequencies	LF, HF	LF, HF	LF, HF	LF, HF			LF, HF				HF					UHF-NFC	
Dimensions Refer to datasheets for other available sizes	Ø 1.2 x 0.6 in (30 x 15 mm)	3.3 x 1.0 x 0.04 in (83 x 25 x 1 mm)	Ø 1.97 x 0.14 in (Ø 50 x 3.5 mm)	Ø 0.7 x 0.1 in (18 x 3 mm)	0.27 x 0.27 in (7 x 7 mm)	max. 5.4 x 1.9 x 0.2 in (136.5 x 48 x 5.5 mm)	max. 0.5 x 0.3 x 0.1 in (13.1 x 7.8 x 3.1 mm)	3.3 x 2.2 x 0.02 in (85 x 55 x 0.5 mm)	max. 3.7 x 0.8 in (95 x 21 mm)	2 x 0.9 x 0.02 in (50 x 24 x 0.5 mm)	4.7 x 2.7 x 0.2 in (120 x 68 x 4 mm)	max. 4.1 x 1.4 x 0.14 in (105 x 36 x 3.5 mm)	max. 4.84 x 1.29 x 0.26 in (123 x 33 x 6.8 mm)	Standard: 3.8 x 1.0 x 0.6 in (97 x 27 x 15 mm) Max : 6.8 x 2.7 x 0.7 in (174 x 70 x 17.8 mm)	2.4 x 0.7 x 0.3 in (60 x 18 x 8 mm)	max. 4.33 x 0.98 x 0.51 in (110 x 25 x 12.85 mm)	
Mount on metal			Yes			Yes	Yes				Yes		Yes	Yes		Yes	
Moisture resistance	IP67	IP68, IP69K	IP69K	IP68		IP68, IP54	IP68	IP68			IP68, IP69K	IP68		IP68, IP69K		IP68, IP69K	
Food compatible			Yes														
Operating temperature	-40 to +185 F (-40 to +85 C)	-40° to +185° F (-40 to +85° C)	-40° to +185° F (-40 to +85° C)	-40° to +185° F (-40 to +85° C)		-4° to +185° F (-20° to +85° C)		-4° to +185° F (-20 to +85° C)	-40° to +185° F (-40 to +85° C)		-22° to +176° F (-30° to +80° C)	-40° to +185° F (-40 to +85° C)	-4° to +185° F (-20° to +85° C)	-22° to +149° F (-30° to +65° C)	-40° to +185° F (-40 to +85° C)		-40° to +185° F (-40° to +85° C)
Peak temperature to	194° F (90° C)	284° F (140° C)	284° F (140° C)	184° F (140° C)	392° F (200° C)	185° F (85° C)	437°F (225°C)	446° F (230° C)	392° F (200° C)	212° F (100° C)	185° F (85° C)	185° F (85° C)		185° F (85° C)			
Flame resistant			Yes					Yes									
Compliant with EPC C1 G2, ISO 18000-6C and others listed	DIN 30745	ISO/IEC 18000-6C, RAIN	ISO 4892-2 ISO 18000-6C IEC 68.2.6 IEC 68.2.29 UL94-HB ATEX / IECEx	IEC 62262-IK07		MIL STD 810-G, ISO 18000-6C, ISO 17364, DIN 40050-9	ISO 18000-6C			ISO 18000-6C, RAIN	IEC 62262-IK06 ISO 17364, ISO 18000-63	MIL-STD-810 G, 1 kg Steel, 1m		DIN 40050-9 IEC 62262-IK09 ISO 17364	DIN 40050-9 IEC 62262-IK07 ISO 17364	ISO 17364, DIN 40050-9, IEC 62262-IK08 (InLine)	



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	Specialty														
															
Product family	IronTag®	ISO Card	EXO Keg Tag	LinTRAK®	Seal Tag vTamper	Seal Tag edTamper		SlimFlex™ Tag	Ear Tag	IQ On Metal Labels	IQ Labels	Sense Passive		Sentry Tag	
Sub-family	206 206F	UHF	UHF	UHF	UHF	UHF		Standard / Mini	UHF	UHF	UHF	FIT 500 HT	IQ	PCB	Cable
Description	High-temperature and flame resistant tags. Enable tracking of metal assets in harsh environments	Standard ISO cards, configurable to any appli- cation requirements, including multiple frequencies	Curved to fit metal kegs and gas cylinders. Mount via welding	Sewn, hemmed or heat-sealed into linens, withstands rigors of commercial laundry cycles	Flexible units with built-in visually tamper evident cable tie	Digitally tamper evident seals report status via RFID when seal is broken		Flexible, rugged transponders deliver versatile mounting options	Reusable RAIN RFID management ear tag for cattle or industrial applications	Thin, printable self-adhesive labels for on-metal use	UHF inlays and labels in various form factors, material and chip options	Innovative range of battery-less ceramic tags and labels for monitoring temperature and presence of moisture.		Highly configurable, PCB based RFID tags with exceptional Size-to-Per- formance Ratio	Specialized tag for tracking cable assemblies with opti- mum RFID performance
	ELECTRONIC														
Chip type	Monza X	Monza 4QT	Monza 4QT, Monza R6	Monza M5, Monza R6-P	Higgs 3, M70	UCODE G2IM+	EM   AURA	Higgs 3, M70	Monza M5	M730, Monza R6-P	M730, UCODE 9	M3D	M750	M750	
EPC   TID	128 bit   96 bit	128 bit   96 bit	128 bit   96 bit	128 bit   96 bit	96 bit   48 bit	256 bit   96 bit	416 bit   48 bit	96 bit   64 bit	128 bit	128 bit	128 bit   96 bit	128 bit   64 bit	96 bit	96 bit	
User memory up to	8192 bit	512 bit	512 bit	32/64 bit	512 bit	112 bit	2 kbit	512 bit	N/A	64 bit		128 bit	32 bit	32 bit	
Reading distance up to	8 ft (2.5 m)	39 ft (12 m)	29 ft (9 m)	16 ft (5 m)	20 ft (6 m)	6.5 ft (2 m)	13.1 ft (4 m)	20 ft (6 m)	23 ft (7 m)	49.2 ft (15 m)	59 ft (18 m)	16.4 ft (5 m)	19 ft (5.8 m)	33 ft. (10m)	20 ft (6 m)
Other frequencies		LF, HF	UHF-NFC		HF			HF		HF			HF		
	ELECTRONIC														
Dimensions Refer to datasheets for other available sizes	1.3 x 1.2 x 0.24 in (33.7 x 31.1 x 6.1 mm)	3.4 x 2.1 x 0.03 in (85.6 x 53.98 x 0.8 mm)	3.5 x 1.5 x 0.6 in (88 x 37 x 15 mm) 17.7 in (450 mm) curve radius	max. 2.6 x 0.7 in (67 x 17 mm)	max: 3.3 x 1.0 x 0.1 in (85 x 25 x 3 mm); cable tie 15.0 x 0.2 x 0.1 in (380 x 6 x 2 mm)	1.53 x 0.55 x 0.14 in (39 x 14 x 3.6 mm); cable tie 3.07 x 0.55 x 0.14 in (78 x 14 x 3.6 mm)	Tag: 3.74 x 1.67 x 0.31 in (95 x 42.5 x 8 mm) Seal wire: 3.15 in (80 mm)	max. 4.3 x 1.0 x 0.1 in (110 x 25 x3 mm)	4.6 x 3 x 0.07 in (116 x 77 x 1.7 mm)	max. 3.7 x 0.9 x 0.05 in (96 x 24 x 1.3 mm)	max. 3.74 x 0.83 in (95 x 21 mm)	0.53 x 0.35 x 0.16 in (13.5 x 9 x 4.3 mm)	max. 4.48 x 0.94 x 0.05 in (114 x 24 x 1.3 mm)	max. 1.52 x 0.67 x 0.22 in (38.6 x 17 x 5.6 mm)	1.43 x 0.43 x 0.11 in (36.3 x 10.9 x 2.8 mm)
Mount on metal	Yes		Yes				Yes			Yes		Yes	Yes		
Moisture resistance	IP68, IP69K	IP68	IP68	IP68	IP68			IP68	IP69K, IP68	IP68	IP67, IP68	IP68	IP68		
Food compatible	Yes														
	THERMAL														
Operating temperature	-40° to +185° F (-40 to +85° C)	-40° to +158° F (-40 to +70° C)	-40° to +185° F (-40 to +85° C)	-40° to +185° F (-40 to +85° C)	-40° to +158° F (-40 to +70° C)	-40° to +158° F (-40 to +70° C)			-40° to +185° F (-40 to +85° C)	-40° to +185° F (-40 to +85° C)	-40° to +185° F (-40 to +85° C)	-40° to +257° F (-40° to +125° C)	-40° to +185° F (-40° to +85° C)	-58° to 185° F (-50° to 85° C)	
Peak temperature to	428° F (220° C)	176° F (80° C)	185° F (85° C)	428°F (220°C)	158° F (70° C)	158° F (70° C)			212° F (100° C)	185°F (85°C)	185°F (85°C)	185°F (85°C)	392° F (200° C)	185° F ( 85° C)	365° F (185° C)
Flame resistant	Yes					Yes									
	ELECTRONIC														
Compliant with EPC C1 G2, ISO 18000-6C and others listed	ATA Spec 2000 DIN 40050-9 IEC 62262-IK07 GS1 EPC TDS 1.6 SAE AS5678	ISO 10373 ISO 7816-1	IEC 62262-IK08/IK07 ISO 17364	OEKO-TEX® Stan- dard 100 Level 1, MRI Compliant	IEC 62262-IK06	ATA Spec 2000 DIN 40050-9 GS1 EPC TDS 1.6 SAE AS5678	IEC 62262-IK06, UHF EPC Class 1 Gen 2, ISO 18000-6C	IEC 62262-IK06	IEC 62262-IK08, EPC Gen2, ISO/IEC 18000-6C			MIL-STD-810 G		1 kg steel, 45 cm	



# RAIN® RFID (UHF): 860 MHz to 960 MHz / NFC\*

Global EPC Class-1 Generation-2 (C1 G2), ISO/IEC 18000-6C, NFC and other standards.  
Both technologies share the same chip.

	Specialty	
		
Product family	EXO Keg Tag	EXO Pro Tag
Sub-family	UHF / NFC	InLine Combo
Description	Curved to fit metal kegs and gas cylinders. Mount via welding	High performance, general purpose transponders. Mount via glue, screw or weld
	ELECTRONIC	
Chip type	Monza R6 P + ICODE SLIX2	
User memory up to	128 bit EPC   96 bit TID + 2560 bit ICODE SLIX2	
Reading distance	32.8 ft (10 m)	
Other frequencies	UHF	
	PHYSICAL	
Dimensions Refer to datasheets for other available sizes	3.5 x 1.4 x 0.6 in (88 x 37 x 15 mm)	3.8 x 1.0 x 0.6 in (97 x 27 x 15 mm)
Mount on metal	Yes	Yes
Moisture resistance	IP69K	IP68, IP69K
Food compatible		
	THERMAL	
Operating temperature	-40° to +185° F (-40° to 85° C)	
Peak temperature to		185° F (85° C)
Flame resistant		
	STANDARDS	
Compliant with ISO 18000-3 and others listed	ISO/IEC 18000-6C ISO 18000-63 Compliant EPCglobal Gen2v2	DIN 40050-9 IEC 62262-IK09 to IK07 ISO 17364

\* To be NFC Forum Tag Type compliant,tags need to be formatted with an NDEF data structure.

## NFC / UHF Combo

RAIN® RFID / NFC combo tags extend the potential applications by combining the best of both worlds. Long-distance logistic applications in the warehouse, and simple user interaction via mobile phone at the consumer / recipient side.

### A tag for every application

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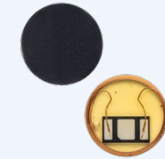


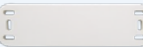
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HF: 13.56 MHz / ISO 15693 / NFC\*

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

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.

	<div>Discs</div>											<div>Embeddable</div>			<div>Specialty</div>		
																	
Product family	Bin Tag	IN Tag™	LogiTag®		BluTAG	Poly Tag™	FIT Brick Tag	Embeddable RFID	Glass Tag		Sentry PCB Tag	Seal Tag	SlimFlex™ Tag				
Sub-family	HF	HF	081/121	161/162	HF	HF	Vigo	Piccolino	Vigo	ICODE SLIX2, F-MEM	e-Module	HF	200	OM			
Description	Screw or embed into standard waste collection bins	Ruggedized discs for severe industrial environments	Small, thin discs with high chemical and pressure resistance. Optional button format		Identification and tracking of textile products in industrial environments	Extreme-impact resistant discs	Micro-sized transponders for embedding into assets	Tiny, water resistant embeddable RFID disc	Compact embeddable capsules, resistant to long term immersion into water or chemicals		Provide HF coils in a robust housing, to withstand the high heat manufacturing processes of special finished tags.	Visually or electrically tamper evident RFID seals	Flexible, rugged units with versatile mounting options				
	ELECTRONIC																
Chip type	ICODE SLIX	ICODE SLIX2	F-Mem	Vigo, ICODE SLIX2	ICODE SLIX2, F-MEM	EM4033	ICODE SLIX, TTS, NTAG 216	Vigo	ICODE SLIX2, ICODE DNA, Vigo, F-MEM	Vigo	ICODE SLIX2, F-MEM	ICODE SLIX	ICODE SLIX				
User memory up to	896 bit	2560 bit	2 or 8 Kbyte	1024 or 2560 bit	2560 bit, 2 or 8 Kbyte	64 bit	896 bit	1024 bit	16 Kbit	1664 bit	2560 bit	1024 bit	896 bit				
Reading distance	Dependent upon reader, environment and application							Dependent upon reader, environment and application					Dependent upon reader, environment and application				
Other frequencies	LF, UHF	LF, UHF		LF			LF	LF, UHF			LF	UHF	UHF				
	PHYSICAL																
Dimensions Refer to datasheets for other available sizes	Ø 1.2 x 0.6 in (30 x 15 mm)	Ø 0.8 to 2 in (20 to 50 mm) Thickness 0.1 to 0.5 in (3 to 13 mm)		Ø 0.5 x 0.1 in (12 x 2 mm)	Ø 0.6 x 0.1 in (16 x 3 mm)	Ø 0.6 x 0.1 in (15 x 2.8 mm)	Ø 1.34 x 0.31 in (Ø 34 x 8 mm)	0.4 x 0.1 x 0.1 in (10 x 3.0 x 2.6 mm)	Ø 0.23 - 0.37 in (6 - 9.5 mm)	Ø 0.08 or 0.12 in (2.1 or 3.1 mm); Length 0.4 or 0.5 in (12 or 13 mm)	Ø 0.2 x 0.9 in (Ø 4 x 22 mm); 0.08 x 0.47 in (2.1 x 12.0 mm)	Ø 0.57 in (14.5 mm)	3.3 x 1.0 x 0.1 in (85 x 25 x 3 mm); Cable tie 15.0 x 0.2 x 0.1 in (380 x 6 x 2 mm)	3.3 x 1.0 x 0.1 in (83 x 25 x 3 mm)	3.3 x 1.0 x 0.2 in (83 x 25 x 6 mm)		
Mount on metal		some models											some models		Yes		
Moisture resistance	IP67	IP68, IP69K		IP68			IP68, IP69K			IP67	IP 68		IP68				
Food compatible		Yes									Yes						
	THERMAL																
Operating temperature	-13° to +185° F (-25° to +85° C)	-4° to +185° F (-20 to +85° C)		-40° to +194° F (-40° to +90° 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 +185° F (-40° to 85° C)	-13 °to +185° F (-25° to +85° C)	-4° F (-20° C) for F-MEM	-40° to +185° F (-40° to 85° C)	-40° to +158° F (-40 to +70° C)				
Peak temperature to	194° F (90° C)	284° F (140° C)			347° F (175° C)	428°F (220°C)				284° F (140° C)				212° F (100° C)			
Flame resistant		Yes					Yes			Yes							
	STANDARDS																
Compliant with ISO 18000-3 and others listed	DIN 30745 ISO 15693 NFC Tag Type 5	ATEX IECEX EN 60079-0:2009 EN 60079-11:2007 EN 60079-26:2007 ISO 15693 NFC Tag Type 5		ATEX / IECEx (only available for LogiTag 161) EN 60079-0:2009 EN 60079-11:2007 EN 50303:2001 ISO 15693 NFC Tag Type 5		ISO 15693, ISO 18000-3-1	ATEX, IECEx, ISO 15693 NFC Tag Type 5, 4, 2 (depending on chip)	ISO 15693 NFC Tag Type 5	ISO 15693 NFC Tag Type 5	ISO 15693 NFC Tag Type 5	ISO 15693 ISO 18000-3 NFC Type V		ISO 15693 NFC Tag Type 5				

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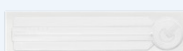






HF: 13.56 MHz / ISO 14443 / NFC\*

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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.

	Discs	Embeddable				Specialty				
										
Product family	Poly Tag™	IQ Labels		Seal Tag	IQ On Metal Labels	InLine Plate	Seal Tag	Epoxy Keyfob	ISO Card	Secure Mobile Device Sticker
Sub-family	HF	Paper Label	PET Clear	edTamper	IQ OM 5 HF	Asset Tag	eTamper Coin		MIFARE	
Description	Rugged disc for outdoor applications and other harsh environments. Optional Trusted Tag Services enabled.	Custom-imprintable labels to integrate digital touch points onto physical media	Small, thin, translucent selfadhesive; hide discretely behind print media or inside product packaging.	Tamper-evident label to detect whether a product or box has been opened.	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
	ELECTRONIC									
Chip type	NTAG 216, HID Trusted Tag	NTAG 213, ICODE SLIX2		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	888 byte, 8KB	144 byte		144 byte	144 byte	8 KB				
Reading distance	Near tap	Near tap				Near tap				
Other frequencies	LF	UHF			UHF			LF	LF, UHF	
	PHYSICAL									
Dimensions Refer to datasheets for other available sizes	Ø 1.34 x 0.31 in (Ø 34 x 8 mm)	ø 1.1 in (29 mm) and 0.7 x 0.7 in (18 x 18 mm)	0.74 x 0.4 in (19 x 11 mm) and 1.3 x 0.7 (34 x 18 mm) and 1.18 x 1.18 in (30 x 30 mm)	⌀ 0.9 in (23 mm)	ø 1.2 x 0.03 in (30 x 0.8 mm)	1.2 x 2.5 x 0.12 in (30 x 65 x 3.5 mm)	Ø 1.5 x 0.3 in (39 x 8.5 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	IP69K, IP68	IP67			IP68	IP68	IP65	IP67	IP68	IP68
Food compatible										
Operating temperature	-13° to +185° F (-25° to +85° 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 to								284° F (140° C)	176° F (80° C)	176° F (80° C)
Flame resistant	Yes									
Compliant with ISO 18000-3, ISO 14443A and others listed	NFC Tag Type 2 (NTAG 216) NFC Tag Type 4 (Trusted Tag)	ISO 14443A NFC Tag Type 2		ISO/IEC 14443A, NFC Tag Type 2	ISO 14443 NFC Tag Type 2	ISO 14443 NFC Tag Type 4		ISO 14443 NFC Tag Type 4 ISO 10373 ISO 7816-1		ISO 14443 NFC Tag Type 4

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LF: 125 or 134.2 kHz

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.

A comprehensive reference of RFID tag variations can be found at [www.rfid.com](http://www.rfid.com)

	Discs									Embeddable					
															
Product family	Bin Tag	Epoxy Tag	IN Tag™	identiFUEL™ Vehicle Tags	LogiTag®		Poly Tag™	Volcano Tag	World Tag®	FIT 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 Managment Systems (FMS)	Small, thin discs with high chemical and pressure resistance		Low frequency disc shaped tags with extreme impact resistance	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	
	ELECTRONIC														
Chip type	Unique; FDX-B BDE; HDX BDE	HITAG S; Unique	HITAG S; Unique	HITAG S	HITAG S; Q5; Unique	Unique	Unique	Q5; Unique	HITAG S; Q5; Titan; Unique	HDX, Nova	EM4305, HITAG S, Q5, Unique	EM4305, HDX, HITAG S, Q5, Unique, Nova, Titan, FDX	FDX-B BDE	Unique; FDX-b	
User memory up to	128 bit	2048 bit	2048 bit	256 bit	2048 bit	64 bit	64 bit	264 bit	2048 bit	160 bit	2048 bit	2048 bit	128 bit	128 bit	
Reading distance	Dependent upon reader, environment and application									Dependent upon reader, environment and application					
Other frequencies	HF, UHF	UHF	HF, UHF		HF		HF			HF, UHF		HF			
	PHYSICAL														
Dimensions Refer to datasheets for other available sizes	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 1.3 x 0.3 in (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 0.05 to 0.2 in (1.2 to 4 mm); length 0.3 to 1.26 in (8 to 32 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				Yes	
Moisture resistance	IP67	IP67	IP68, IP69K	IP67	IP68		IP68, IP69K	IP68		IP 68	Customize to meet requirements	IP68	IP67	IP68	
Food compatible			Yes												
	THERMAL														
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)	-40 °to +185° F (-40° to +85° C)	-40 °to +185° F (-40° 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 to	194° F (90° C)	284° F (140° C)	284° F (140° C)		320° F (160° C)		212° F (100° C)	392° F (+200° C)	212° F (100° C)	284° F (140° C)		284° F (140° C)			
Flame resistant			Yes				Yes					Yes			
	STANDARDS														
Compliant with standards listed	DIN 30745 EN 14803		ATEX, IECEx EN 60079-0:2009 EN 60079-11:2007 EN 60079-26:2007	ATEX, IECEx EN 60079-0:2009 EN 60079-11:2007 EN 60079-26:2007			IEC 62262-IK07, UL 94 HB							EN 14803	



RAIN® RFID (UHF) Stationary Reader



HID® Acura RFID Readers

ACURA is the pioneer in the Radio Frequency Identification (RFID) market in Brazil and Latin America, and has been successful since the end of the 1990s in its wide-ranging adoption in the most diverse sectors of the economy, from mining to steel, from agriculture to food processing, from logistics to retail, from transportation to the distribution chain, from access control to asset management.

HexaPad, AcuPad and AC-01 are compact reading devices for applications like retail checkout. Edge-30 readers are used for outdoor applications like parking access, Intelligent Transport Systems (ITS) like road tolling or logistics.

							
Product family	HexaPad		AcuPad		AC-01 V2	EDGE	
Sub-family	HexaPad-10	HexaPad-10 BC	AcuPad-50	AcuPad-50 MUX	AC-01 V2	EDGE-30R+ TCP/IP	EDGE-30R+ AUTOID
	A tabletop reader with UHF RFID technology developed with a Near Field antenna with a restricted reading field, suitable for checkout operations, in addition to having an integrated barcode reader that can be used in a simultaneous or separate reading of tags. It is a slim profile reader with a modern and elegant design.		A compact, discreet UHF RFID reader with two SMA outputs for external antennas. The reader, combined with the practicality of the USB connection as an HID Keyboard device, is a flexible solution for the most diverse retail, healthcare, industry, and logistics applications.		Highly versatile desktop reader that uses RFID technology and offers an array of impressive features. It operates in two modes: Autonomous Mode for automatic readings and Transparent Mode for software development and programming.	A high-performance UHF RFID reader for tag Reading, its main feature is to be used in vehicle access control operations.	
Frequency	UHF ANATEL (BR) 902 - 907 and 915 - 928 MHz CE (Europe) Upper band 916.3 MHz, 917.5 MHz, 918.7 MHz FCC (USA) 902 - 928 MHz		UHF ANATEL (BR) 902 - 907 and 915 - 928 MHz FCC (USA) 902 - 928 MHz		UHF ANATEL (BR) 902 - 907 and 915 - 928 MHz CE (Europe) Upper band 916.3 MHz, 917.5 MHz, 918.7 MHz FCC (USA) 902 - 928 MHz		
Applications	POS Asset control Tag programming stations		Self Checkout POS Asset control		Office applications RFID tag registration Manual tag identification	Vehicle identification Access Control Gas station payment Truck fleet management Train wagon control Drive-thru payment Fuel pump control + (more)	Vehicle identification Access control
RF output power	0 to 27 dBm		0 to 30 dBm	0 to 27 dBm		0 to 30 dBm	
Communication interface	USB HID Keyboard USB Serial CDC					TCP/IP RS-232	TCP/IP Wiegand 26/34 bits Abatrack 10/14 digits Serial RS-232
Working modes	Autonomous Mode & Transparent Mode						N/A AutoID Firmware
API/SDK	Mercury API (using Transparent Mode)						Does not require software development using API/SDK
Built-in antenna	Yes		No		Yes		
Antenna gain	4 dBi @920 MHz				0 dBic	7.5 dBic	
Antenna ports	No		2 ports		No		
Antenna connector			2x RP-SMA Jack, male intern pin				
Reading distance	Up to 50 cm (adjustable by power settings)		The distance may vary depending on the antenna connected to the reader		Up to 20 cm (adjustable by power settings)	20 ft (6 m)	
Built-in barcode reader	No	Yes	No				
Communication	USB Type-A male connector					RJ45 connector	
Power	5 VDC +/- 1% (Host USB port)					IEEE 802.3af Powered Device (PD) PD Power Class: Class 3, 12.95 W Operating PoE Voltage: 37 VDC to 57 VDC	
Cable leght	6.5 ft (2 m)						
IP Rating	N/A					IP65	
Mounting type	Desktop reader		Desktop/table or wall mounting		Desktop reader		With mounting support on the back side for poles (Ø 1" to 1.75" and 1.75" to 3") or flat surfaces (wall)
Dimensions	10.6 × 6.8 x 0.5 in (270 x 175 x 15 mm)	10.6 × 6.8 x 0.9 in (270 x 175 x 24 mm)	5.1 × 3.5 x 0.6 in (130 x 90 x 17 mm)		3.5 × 2.2 x 0.7 in (89 x 57 x 20 mm)	8.6 × 8.6 x 5.03 in (220 x 220 x 128 mm)	
Certification	ANATEL / CE / FCC		ANATEL / FCC		ANATEL / CE / FCC		



Bluetooth® Low Energy

Advanced Bluetooth Low Energy beacons with sensor technology and multi-protocol support

BEEKs™ Bluetooth LE 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 Services ecosystem, that includes BluFi™ Bluetooth LE 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.

	Beacons													
														
Product family	BEEKs™													
Sub-family	Plus	Lite	LR	Mini	Mini Ruggedized	CM v2 / Industrial v2	LR Temperature	Badge	Sense Badge Holder	Duress Badge Holder	Keyfob	Wristband	Wristband v4	
Description	Bluetooth LE beacon without sensors to be used for Proximity Marketing, way-finding and/or real-time location (RTLS).		BEEKs LR beacon features a high-gain directional antenna that is especially useful for wayfinding applications	Tiny Bluetooth LE beacon to support real-time location (RTLS).	Versatile asset tracking device with a waterproof, rugged case that makes it robust enough for a host of industrial applications.	Rugged Bluetooth LE condition monitoring beacon with embedded sensors to measure temperature and vibration of motorized equipment in manufacturing, coolers, escalators etc.		Beacon badge that can be optionally combined with passive RFID for access control. Typically used for optimizing office utilization or mustering.	Sense Badge Holder is a ruggedized long life personnel tracking beacon that can be ordered in either portrait or ladscape orientations. Intrinsically Safe option available.	Bluetooth LE badge holder, into which a printed (RFID) ISO card can be inserted (landscape or portrait). Includes call button on the back that can raise an alert in the Bluzone console when in vicinity of a connected BluFi. Optionally supports hand hygiene compliance module.	BEEKs Keyfob provides an audible alert in addition to the LED and may be used either for duress applications or for physical distancing "aware" applications.	Bluetooth LE beacon that is worn around the wrist, like a watch to identify patients and supports real-time location applications.		
Protocol	Bluetooth Low Energy 4.2			Bluetooth Low Energy 5.0		Bluetooth Low Energy 4.2				Bluetooth Low Energy 5.0		Bluetooth Low Energy 4.2		Bluetooth Low Energy 5.0
Frequency Band	2400-2483.5 MHz													
Bluetooth LE Application	Eddystone, iBeacon, sBeacon			sBeacon	sBeacon, Quuppa	Eddystone, iBeacon, sBeacon			Eddystone, iBeacon, sBeacon, Quuppa	sBeacon	Eddystone, iBeacon, sBeacon	sBeacon		
Battery Life	Up to 8 year battery life	Up to 5 year battery life		Up to 2 year battery life		Up to 3 year battery life		Up to 4 year battery life	Up to 6 years, Static 16hours a day @ 0.1Hz, moving 8 hr a day at 1Hz	Up to 3 year battery life with no activations	Up to 4 years (Duress use), Up to 8 months (Aware use)	RTLS mode (Asset Tracking), advertisement every 500ms: 30 days	RTLS mode (Asset Tracking), advertisement every 200ms: 14 days	
Dimensions	2.41 x 1.46 in (61.3 x 37.2 mm)	2.36 in x 0.83 x 0.98 in (60 x 21 x 25 mm)	2.48 in x 2.36 x 0.86 in (63 x 60 x 22 mm)	1.2 in x 0.4 in (30 x 10 mm)	1.88 in x 1.45 x .51 in (47.9 x 36.9 x 13mm)	2.36 in x 0.83 x 0.98 in (60 x 21 x 25 mm)	2.48 x 2.36 x 0.86 in (63 x 60 x 22 mm)	2.14 x 3.39 in (54 x 86 mm)	Portrait Version: 96.4 x 57.9 x 8.0 mm Landscape Version: 89.4 x 64.9 x 8.0 mm Portrait + Landscape Version: 96.4 x 64.9 x 8.0 mm	2.5 in x 3.7 in x 0.2 in (64 mm x 95 mm x 5 mm)	2.79 in x 1.67 in x 0.57 in (71 mm x 43 mm x 15 mm)	1.5 in x 11.8 in x 0.4 in (39 x 300 x 10 mm)	"0.75 in dia, 0.27 in height 19 mm dia, 7 mm height"	
Affixation	3M VHB adhesive sticker or Epoxy glue				Lanyard, Rivet or 3 in 1		3M VHB adhesive sticker or Epoxy glue		Clip				Wristband	
Weight	2.7 oz (76 g)	1 oz (28 g)	3.3 oz (93.5 g)	0.24 oz (7 g)	0.6 oz (19 g)	max. 1.37 oz (39 g)	3.3 oz (93.5 g)	0.5 oz (14 g)	1.87 oz (53 g)	0.85 oz (24 g)	1.3 oz (37 g)	0.3 oz (9 g)	0.25 oz (7 g)	
Water (IP)	IP65		IP67		IP68	IP65 and IP67		IP67	IP68		IP64		IP67	
Impact (IK)		IK09			IK08	IK09				IK08		IK07		
Operating temperature	-13° to +170° F (-25° to +77° C)		-22° to +170° F (-30° to +77° C)	-4° to +140° F (-20° to +60° C)		-13° F to +185° F (-25° C to +85° C) Intrinsically Safe Version: -13° to +140° F (-25° to +60° C)		-13° to +170° F (-25° to +77° C)	-4°F to +138°F (-20°C to +59°C)		-22° to +158° F (-30° to +70° C)		-4° to +140° F (-20° to +60° C)	32° to +113° F (0° to +45° C)
Withstands Exposure To	Water and UV Resistant												Water resistant	
Certifications	FCC / CE	FCC / CE / JRF / IC	FCC / CE	FCC	FCC / CE	FCC / CE / IC / UKCA / RCM ATEX / IECEx (Intrinsically Safe version only)	FCC / CE	FCC / CE	FCC / CE / IC ATEX / IECEx / C1D1 (optional)	FCC / CE / IC	FCC / CE / IC / MIC	FCC	FCC / IC	

\*Battery life is dependent on device configuration, such as broadcast power and transmission rate. This estimate is based upon typical beacon configuration and use-cases. This estimate is subject to increase or decrease based on specific usage needs.



Bluetooth® Low Energy (Cont'd)

Advanced Bluetooth Low Energy beacons with sensor technology and multi-protocol support

BEEKs™ Bluetooth LE 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 Services ecosystem, that includes BluFi™ Bluetooth LE 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.

	Beacons		Gateways			
						
Product family	Sense		BluFi™			
Sub-family	Sense Asset+	Sense Asset	AC (US/EU/UK/AU)	PoE	DC (Battery)	DC (Plenum)
Description	Highly ruggedized, industrial IOT asset tracking device offers effortless indoor and outdoor tracking of assets with a multiyear replaceable battery for superior ROI and performance.	Sense Asset is a highly ruggedized active asset tracking tag. It can be attached using a range of different options, including screws, magnets and cable ties (see different mechanical variants for more details).	BluFi acts as gateway between Bluetooth LE 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 supports direct DC power and Power over Ethernet. It features an omnidirectional antenna.	BluFi acts as gateway between Bluetooth LE 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.	BluFi DC Plenum is a flame resistant, low-voltage DC powered version that is designed to be installed on walls, ceilings or in the plenum, with an optional mounting kit.
Protocol	LoRaWAN 1.0.4, LoRa,Bluetooth, NFC, GNSS	Bluetooth Low Energy 5.1	Bluetooth Low Energy 4.2 / WiFi: 802.11 b/g/n	Bluetooth Low Energy 4.2 & 5.1 / WiFi: 802.11 a/b/g/n	Bluetooth Low Energy 4.2 / WiFi: 802.11 b/g/n	
Frequency Band	LoRa Frequency Range: 866-868 MHz (EU) 902-928 MHz (US)	2400-2483.5 MHz	2400-2483.5 MHz, 2.4 GHz (WiFi)	2 2400-2483.5 MHz,.4 GHz / 5 GHz (WiFi)	2400-2483.5 MH , 2.4 GHz (WiFi)	
Bluetooth LE Application	Eddystone, iBeacon, sBeacon		sBeacon, WiFi			
Battery Life	Up to 3 years battery life	up to 8 years, Static 23hours a day @ 0.1Hz, moving 1hr a day at 1Hz	100-240V AC, 50/60 Hz	9V - 56V DC	Up to 24h	N/A
Dimensions	5.32 in x 2.72 x 1.29 in (135.3 x 69 x 33 mm)	95.1 x 34.2 x 21mm	2 x 1.5 x 1.5 in (50 x 38 x 38 mm)	3.7 x 3.5 x 1.3 in (94 x 90 x 32 mm)	3.4 X 3.2 X 1.2 in (86.1 X 82.2 X 31.8 mm)	
Affixation	Rivet Attachment, Mechanical (std)	Screw, Rivet, Cabletie, Magnet	A/C power plug	POE & DC	Micro USB	USB Type A
Weight	7.8 oz (222 g)	2.1 oz (59 g)	1.7 oz (48 g)	5.82 oz (165 g)	9.3 oz (264 gr)	4.13 oz (117 g)
Water (IP)	IP68	IP68				
Impact		IK11				
Operating temperature		-4° to +140° F (-20° to +60° C)	-13° to +149° F (-25° to +65° C)	-4° to +158° F (-20° to +70° C)	-4° to +158° F (-20° to +70° C)	
Withstands Exposure To	Salt Mist	water resistant, UV resistant				Flame UL-2043
Certifications	FCC/CE/IEC 62368-1 / EMC / SAR	FCC / CE / IC ATEX / IECEx / C1D1 (optional)	FCC/CE/UL/FRE	FCC/CE/IC	FCC/CE	

\*Battery life is dependent on device configuration, such as broadcast power and transmission rate. This estimate is based upon typical beacon configuration and use-cases. This estimate is subject to increase or decrease based on specific usage needs.












Active RFID: 433 MHz Radio Frequency

HID GuardRFID® Active Tags: RTLS for monitoring and protecting healthcare staff and patients



GuardRFID is a leading provider of real-time location services (RTLS) hardware and software solutions in the healthcare space. GuardRFID's suite of active RFID tags, readers, excitors and software support four primary use cases important to the healthcare market: infant security, staff safety, asset tracking and wander management.

With hundreds of system installations in the healthcare industry, GuardRFID delivers a robust multi-purpose real-time location platform with superior flexibility and scalability.

	Tags								
									
Product family	Infant Tags			Patient Tags		Employee Tags	Asset Tags		
Sub-family	Umbilical Tags	TotTags	Mother Tags	Tamper Detecting Patient Tags	Patient Tags	Staff Tags	Low Profile Asset Tags	Heavy Duty Tag	433MHz Portable Tag Tester
	Infant monitoring tag designed to be used with umbilical clamp on infants. The tags beacon once every 12 seconds to help provide accurate location tracking.	Infant monitoring tag with dual tamper detection. TT tag is designed to be attached to infants up to 4 months old using a soft fabric band. The tag's detection capability allows the software to generate an alarm if the tag is tampered or removed from the infant.	Tag that enables baby matching with any parent or item provided specifically for their care. The tag has a range of 30.5 cm (12") nominal to infant monitoring tag. Can be paired with any infant or patient tag.	All-ages patient tag with tamper detection that is applied with a woven band and holder. The tags beacon once every 12 seconds and have 12 months of battery life.	Standard patient tag for adult patients that include location monitoring and elopement prevention. The tags beacon once every 12 seconds and have 12 months of battery life.	Staff monitoring tag with: 2 x programmable buttons, 2 x LED indicators, audio speaker, accelerometer and motion detection sensor. Tag is capable of triggering Staff Duress alarms to ensure staff are able to receive help when needed.	Low profile asset tracking tag with integrated motion and temperature sensors. Supports variable battery life based motion activity - beacons faster in motion to provide more accurate location tracking and slower when stationary to preserve battery.	Durable, all environment asset tracking tag with magnetic mounts. Includes temperature sensor and dual level motion detection.	Tests if tags are functional without connecting to the AllGuard® software. Includes charging cable and rechargeable NiMH battery. Tag Read Distance: 60 cm (2')
Protocol	433 MHz RTLS								
Frequency Band	Transmit: 433MHz Receive: 125 KHz		Transmit: 125 KHz	Transmit: 433MHz Receive: 125 KHz		Transmit: 433 MHz Receive: 433 MHz and 125 KHz	Transmit: 433 MHz Receive: 125 KHz		Transmit: 125KHz Receive: 433 KHz
Beacon Interval	12 seconds	Active: 12 seconds Idle: 2 minutes	n/a	Active: 12 seconds Idle: 2 minutes	12 seconds	Motion: 12 seconds Static: 10 minutes			n/a
Battery Life	12 months						32 months with no motion 24 months with 15% motion 12 months with 75% motion	72 months with 15% motion 36 months with 75% motion	Rechargeable
Dimensions	1.1 x 0.8 in (28 x 19.8 mm)	1.1 x 0.5 in (28 x 12.2 mm)	1.8 x 1.6 x 0.5 in (46.4 x 41.3 x 11.9 mm)	1.1 x 0.5 in (29 x 12.4 mm)	1.1 x 0.6 in (28 x 14.5 mm)	3.3 x 1.9 x 0.2 in (83 x 49 x 4.5 mm)	1.6 x 1.3 x 0.2 in (40 x 32 x 5.9 mm)	2.8 x 2.9 x 1.0 in (71 x 75 x 25.4 mm)	8.2 x 1.7 in (230 x 38 mm)
Affixation	Umbilical clamp	Fabric band	Security band	Cut-band and clamp	Security band	Lanyard	Adhesive or optional keychain accessory	Built-in magnet or screws	n/a
Weight	0.2 oz (6 g)	0.2 oz (6.4 g)	0.7 oz (20 g)	0.3 oz (7.6 g)	0.2 oz (6.6 g)	0.7 oz (20 g)	0.2 oz (6 g)	4.4 oz (125 g)	19 oz (500 g)
Water (IP)	IP68	IP66	IP68			IP52 (Splashproof)	IP68		
Operating temperature	-14° to +122° F (-10° to +50° C)					-4° to +122° F (-20° to +50° C)	-22° to +122° F (-30° to +50° C)		-14° to +122° F (-10° to +50° C)
Humidity	0-100%					0-100% RH non-condensing	0-100%		0-95%
Certifications	FCC / IC		FCC / IC / CE	FCC / IC	FCC / IC / CE / UL				FCC



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**For more global phone numbers click here**

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Part of ASSA ABLOY

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