

Adept Tag

High-performance RAIN tags optimized for specific industrial purposes



One of the reasons HID has the largest product portfolio in the market is our ability to create custom-designed products to fit very specific customer needs. Sometimes these products remain custom for a specific application — but at other times they can become products marketed to our global customer base.

From strap attachment tags for large cylinders, via hang tags for cables, to high-memory passive RFID labels, steel-encased tags for very heavy industry and tiny, unobtrusive embedded tags, this family of industrial RFID tags is designed to meet specialty use cases and non-traditional applications.

The Adept tag range includes several examples of rugged, industrial custom products but is by no means an exhaustive list. For any special RFID needs, please inquire with us to learn how HID's proven custom design and manufacturing capabilities may help improving your specific use case.



KEY BENEFITS:

- Various form factors including ultra-rugged options
- Wide range of attachment options including steel band, welded, riveted, tethered, adhesive and wire rope
- Optimized for use on metal with options for US and EU frequency plus versatile 'global' versions.

TECHNOLOGY HIGHLIGHTS:

RAIN (UHF)

- Impact resistant housings
- Special design for cable or band attachments

Adept Tag



APPLICATION AREAS:

- Tagging gas cylinders and kegs
- Outdoor industrial applications
- Tagging pipes valves and fixed assets in oil and gas facilities
- Various use in harsh environments where heavy impacts are a regular occurrence
- Automotive applications

	Adept				
	400	400 DATA	360	500	850 HM
Base Model Number	CP13676	CP08728-02	CP16803	CP16202 (MR6-P) CP15694 (H9)	CP20491
ELECTRONIC					
Operating Frequency	865-928 MHz (Global)				
Chip Type	Monza 4QT	M730	Higgs 9 (UHF) NXP I-Code (HF opt.)	Monza R6-P or Higgs 9	Monza X
Memory	128 bit EPC + 96 bit TID + 512 bit user memory	128 bit EPC	96 bit EPC + 96 bit TID + 688 bit user memory	28/96 bit EPC, 32/64 bit UM, (MR6-P)	128 bit EPC, 96 bit TID, 8192 bit UM
Anti-Collision	Yes				
Reading Distance (2W reader ERP, free space)	Up to 13.1 ft (4 m)		Up to 16.4 ft (5 m); Up to 0.3 ft (0.1 m) HF opt.	Up to 16.4 ft (5 m)	Up to 49.5 ft (15.1 m)
PHYSICAL					
Dimensions	1.44 x 1.44 x 0.65 in (36.5 x 36.5 x 16.5 mm)	1.48 x 0.49 x 0.17 in (37.5 x 12.5 x 4.5 mm)	5.4 x 1.9 x 0.2 in (136.5 x 48 x 5.5 mm)	1.4 x 1.4 x 0.4 in (37 x 37 x 11.5 mm)	2.5 x 1.8 x 0.31 in (65 x 45 x 8 mm)
Mounting Method	Metal strap, wire rope	Adhesive, Tether	Tether	Adhesive, Epoxy	Screw, Rivet, or Adhesive
Screw Mounting Hole		Ø 0.09 in (2.5 mm)	Ø 1.34 in (34 mm)		Ø 0.20 in (5.20 mm)
Affixes To	All surfaces, including metal				
Housing Material	Stainless Steel	Synthetic label	Stainless Steel	Durable Thermoplastic	ABS Rigid Plastic
Color	Gray				
Weight	2.45 oz (69.5 g)	0.07 oz (2.2 g)	0.9 oz (126 g)	0.3 oz (9.8 g)	1.2 oz (34 g)
CHEMICAL AND MECHANICAL					
Water	IP68, 68° F (20° C), 1 m x 24 h	IP54, 68° F (20° C), 1 m x 24 h	IP68, 68° F (20° C), 1 m x 24 h		
Withstands Exposure To	Mineral oil, vegetable oil, motor oil	Mineral oil, vegetable oil, motor oil	Mineral oil, 5% caustic soda (24 Hrs.), 10% salt water, vegetable oil, motor oil		Mineral oil, 5% caustic soda (24 Hrs.), 10% salt water, vegetable oil, motor oil
Vibration & Shock	MIL STD 810-G	MIL STD 810-F			MIL STD 810-G
Impact	IK10	IK08	IK10	IK08	
THERMAL					
Storage	-40° to +185° F (-40° to +85° C)	23° to +131° F (-5° to +55° C)	-40° to +185° F (-40° to +85° C)	-4° to +149° F (-20° to +65° C)	-4° to +185° F (-20° to +85° C)
Operating Temperature	-4° to +185° F (-20° to +85° C)	23° to +131° F (-5° to +55° C)	-40° to +185° F (-40° to +85° C)	-4° to +149° F (-20° to +65° C)	-4° to +185° F (-20° to +85° C)
Shock/Fatigue	-40° to +185° F (-40° to +85° C), 100 x 5 min with 30 sec transition				
OTHER					
Standards	UHF EPC Class 1 Gen 2, ISO 18000-6C, ISO 17364, DIN 40050-9				
Options	ATEX/ IECEx/ C1D1, Direct Product Marking (DPM), Printed Label, Laser engraving	ATEX/IECEX/ C1D1, Colour Label	ATEX/ IECEx/ C1D1, Direct Product Marking (DPM), Printed Label, Laser engraving	ATEX/ IECEx/ C1D1, Custom Logo, Direct Product Marking (DPM), Printed Label, Laser engraving	
Box Size	180 pcs.	3,600 pcs.	120 pcs.	768 pcs.	400 pcs.
Warranty	2 years				

