



UHF Tags

Long-Distance Tags for Frictionless Applications

- **SUPERIOR DESIGN**
Frequency tuning for generic and application-specific deployments
- **VERSATILE**
Global broadband support for contactless frequency ranges
- **MULTI-APPLICATION**
Dual-frequency tags (UHF+HF) for support in a variety of applications, including NFC with HF interface
- **INNOVATIVE DESIGN**
Tamper-detection capability

Identiv's UHF tags portfolio delivers a comprehensive set of high-performance designs for demanding applications that require long distance radio frequency identification (RFID). These passive tags are dedicated to improving efficiency, monitoring, and traceability in industries including:

- Supply chain and inventory management (i.e., tires, agricultural, etc.)
- Asset and personnel tracking (i.e., pallets, containers, runners, electronic devices, employees, etc.)
- Logistics
- Industrial and manufacturing
- Brand protection and anti-counterfeiting
- Consumable authentication using TID as serial number
- Real-time location systems (RTLS) using 3D orientation insensitive design
- Gate and perimeter access control
- Pharmaceutical and healthcare (i.e., medical warehouse tracking, hands-free environments, emergency personnel, etc.)
- Entertainment and travel (i.e., baggage tagging, traveler identification on cruise lines, etc.)
- Internet of Things (IoT) enablement
- Apparel and retail

These UHF designs leverage Identiv's extensive expertise in RFID deployments, are designed to outperform existing solutions available on the market, and are frequency tuned for specific environmental constraints. All of Identiv's tags (i.e., dry and converted inlays) provide optimum performance with existing UHF readers/interrogators.

FEATURES	BENEFITS
Broadband	Consistent reading and performance throughout full UHF spectrum (860 - 960 MHz)
Convenient	Catalog of leading-edge UHF inlay designs to accommodate a majority of environments including wood, glass (i.e., windshield), plastic, cardboard, human and animal bodies, or stacked up (i.e., simultaneous tag reading, like passports)
Comprehensive Chip Options	Available with most common UHF chips, including Impinj, EM Microelectronics, and NXP, and different EPC/ user memory sizes, including EPC 96 to 256 bits and user memory 512 bit or more
Tamper-Detection	Notification whenever a tamper event has occurred, including, but not limited to, one of the following situations: detection of opening a box, container, or envelope, or detection of a seal breakage
Multi-Application	Support for two RFID technologies (UHF+HF) in a single inlay shape for credit card applications (i.e., controlled parking access for opening gates with UHF interface and proximity HF technology for proximity authentication or physical access control for opening doors)

FEATURES	BENEFITS
Durable Form Factor	Built to perform in harsh environments, can withstand exposure to the elements, continuous immersion in water, and constant motion.
Cost-Effective	Value-priced tags in different form factors (i.e., dry and wet inlays and labels) for integration into current products and applications
Interoperable	<ul style="list-style-type: none"> ISO 18000-6C mode 1, Type 1, 2, 3, 4 EPC Gen 2 Class1 RFID inlays (passive/read write) with unique identifiers EPC and TID (Tag ID) with unique identifiers (EPC programmed on demand) RAIN RFID compatible tags HF communication protocol ISO/IEC 15693 and 14443 (for dual frequency articles)
Simplified Ordering	Low MOQ to ease integration tests with existing infrastructure (i.e., industrial and manufacturing)
Trusted Expertise	ISO9001-2008 certified facility leveraging expert RFID antenna development and design

PRODUCT	CHIP	PACKAGING	DIMENSIONS	APPLICATIONS	PART NUMBER (ROLL ORIENTATION)
3D	Impinj Monza 4QT	Dry	50 x 50 mm	Dual dipole; omni directional design; RTLS	I00XXXZ70440 (WEL)
LWood	Impinj Monza R6P	Wet	100 x 6.3 mm	Wood surface	I00PADZ90050 (WEL)
RWood	Impinj Monza R6P	Label	38 x 73 mm (die cut) 31 mm (antenna)	Wood surface	LZ1XADZ89030 (WEL)
Body	NXP UCODE7	Wet	12 x 115 mm	Human or animal body	I00PADUB0070 (WEL)
Glass	NXP UCODE7	Label	45 x 25 mm	Glass/windshield environment	L??PADUB0450 (NEL)
ComboHF-SLIX2	NXP G2IM/SLIX2	Dry	76 x 44 mm	Plastic ID-1 card applications (i.e., PVC and composite; credit card format)	I00XXX#20440 (WEL, layout 3 x 7)
DetectL	NXP G2IM+	Dry	156 x 67mm (loop) and 88 x 25 mm (antenna)	Tamper-detection loop	I00XXU90880 (WEL)
Stackup	NXP UCODE7	Dry	50 x 30 mm	Stacked up document reading/counting (i.e., passport)	I00XXUB0302 (WEL)
GenDipole	NXP UCODE 7/UCODE DNA	Dry	93 x 11 mm	Generic; plastic or cardboard recommended	I00XXUB0110 (WEL)
Sawblade	NXP UCODE 7/UCODE DNA	Dry	94 x 24 mm	Generic; plastic or cardboard recommended	I00XXUB0240 (WEL)

Note 1: For other inlay sizes, applications, protocols, or target environments, please contact Identiv to request a new generation of custom inlays/tags or to evaluate Identiv's superior tag designs.

Note 2:

- NEL: Narrow Edge Leading (Machine Direction x Cross Direction: MD x CD)
- WEL: Wide Edge Leading (Cross Direction x Machine direction: CD x MD)

Identiv, Inc. (NASDAQ: INVE) is the leading global player in physical security and secure identification. Identiv's products, software, systems, and services address the markets for physical and logical access control and a wide range of RFID-enabled applications. Customers in the government, enterprise, consumer, education, healthcare, and transportation sectors rely on Identiv's access and identification solutions. Identiv's mission is to secure the connected physical world: from perimeter to desktop access, and from the world of physical things to the Internet of Everything.

Identiv has offices worldwide. Addresses and phone numbers are listed at identiv.com/contact. For more information, visit identiv.com or email sales@identiv.com.