



Maximum RFID

CREDENTIALS for UHF READERS LR-2000, LR-2200, LR-3000 & UA-612

VEHICLE-MOUNTED TAGS

WS-UHF-0-0 Windshield Tag

- Self-adhesive tag applied inside windshield
- Hands-free vehicle identification – not in driver's vision
- Secure tag permanently **attached directly on glass**



RV-UHF-0-0 Rearview Mirror Tag

- Self-adhesive tag applied to rearview mirror frame
- Hands-free vehicle identification – **tag not visible**
- Secure tag permanently attached on inside mirror



VT-UHF-0-0 Sunvisor Tag

- Clip-on tag for sunvisor - reads through windshield
- Lower visor to read tag -- **out of sight between reads**
- Easily moved from one vehicle to another by user



HT-UHF-0-0 Hangtag for Inside Mirror

- Hook-on tag - hangs on post of inside mirror
- Hands-free vehicle identification – carry to other cars
- **Visible through windshield** for printed identification



MT-UHF-0-0 Metal-Mount Bar Tag

- **Variety of uses** – outside or inside, fixed or portable
- Use self-adhesive, screws, rivets, tape, wire ties ...
- For big trucks, buses, forklifts, golf carts, wheelchairs...



ST-UHF-0-0 Steel-Mount Tag

- Larger tag for **exceptional read range**
- Attaches by 4 fasteners in direct view of reader
- Perfect for industrial and commercial applications



HAND-HELD CARDS

CS-UHF-0-0 Clamshell Card

- **Rugged slotted card** – hold facing reader at gate
- One card for both vehicles at gates and people at doors
- Add laminated overlay for photo ID badging or logo



GR-UHF-0-0 Graphics-Quality Card

- **Slim hand-held card** for long-range and door readers
- Squeeze between thumb & finger - aim outside window
- Uses: vehicle ID, door access, photo ID badge, bar code





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Reading Distances – Up to These Distances in Practical Applications

Tag or Card	LR-2000, LR-3000 Series	UA-612
WS-UHF-0-0	25 feet (7.6 meters)	(Not applicable)
RV-UHF-0-0	20 feet (6.1 meters)	(Not applicable)
VT-UHF-0-0	15 feet (4.6 meters)	(Not applicable)
HT-UHF-0-0	10 feet (3.0 meters)	(Not applicable)
MT-UHF-0-0	15 feet (4.6 meters)	(Not applicable)
ST-UHF-0-0	35 feet (10.7 meters)	(Not applicable)
CS-UHF-0-0	25 feet (7.6 meters)	12 inches (30 cm)
GR-UHF-0-0	20 feet (6.1 meters)	12 inches (30 cm)

Reader Selection

- Vehicle-mounted tags: Use with the UHF long-range ("LR") readers only.
- Hand-held cards: Use with the UHF long-range readers, and also with the UA-612 reader.

Technology in Tags and Cards

- UHF communications: Bi-directional between UHF readers and credentials.
- Excitation frequency: 865-868 MHz for the LR-2200 reader; 902-928 MHz for other UHF readers.
- Read repetition rate: Set in the readers. For "LR" readers, rep rate is 3 reads per second (field-programmable to slower rates).

Encoding for Tags and Cards

- Code format types: Wiegand type for general use; other types on special order.
- Code format options: Open codes - 26 bits and 37 bits. Proprietary codes – up to 50 bits. Special formats – call AWID.

Information Required in Purchase Order (Include leading zeros in facility code and ID numbers.)

- Quantity.
- AWID's part no.
- Code format (example: 26-bit-STD).
- Facility or site code.
- Start ID number sequence.

Environmental Conditions

- Operating temperature: -31° F to +150° F (-35° C to +65° C).
- Operating humidity: 0% to 95% non-condensing.
- Exposure to sunlight: Remove UHF cards from direct sunlight inside closed vehicles in hot weather.

Size of Tags and Cards (Approximate)

Tag or Card	Width	Height	Thickness	Notes
WS-UHF-0-0	4 inches	1 inch	<1/32 inch	Peel-off sheet covers adhesive.
RV-UHF-0-0	4-3/16 inches	1-1/8 inches	<1/32 inch	Peel-off sheet covers adhesive.
VT-UHF-0-0	4-1/2 inches	2-3/8 inches	1/32 inch	Includes U-clip for sunvisor.
HT-UHF-0-0	2-1/4 inches	6-1/2 inches	1/32 inch	With hook to hang on mirror.
MT-UHF-0-0	8 inches	15/16 inch	1/4 inch	Self-adhesive. 2 holes for fasteners.
ST-UHF-0-0	5-1/2 inches	7-3/4 inches	3/4 inch	Flat back. 4 holes for fasteners.
CS-UHF-0-0	3-3/8 inches	2-1/8 inches	0.065 inch	1 side has beveled edges. Rugged.
GR-UHF-0-0	3-3/8 inches	2-1/8 inches	0.033 inch	ISO specifications. For printing.

Slots and Holes

- WS-UHF, RV-UHF, HT-UHF: Must have no slots or holes, punched or drilled.
- VT-UHF: Contains a slot for the sunvisor clip (supplied with the tag).
- MT-UHF, ST-UHF: Contains holes at the ends for screws, rivets, wire ties. Must not be punched or drilled.
- CS-UHF: Contains a molded slot for "portrait" hanging from a clip-strap, lanyard or flexible chain.
- GR-UHF: May be slot-punched or drilled only at the locations shown on the instructions (included in the shipment).

Applications

- Credentials may be used on cars, trucks and buses of all sizes, and on special vehicles (fire trucks, forklifts, motorcycles, golf carts, wheel chairs, gurneys).
- For security, WS-UHF and RV-UHF tags rip apart when they are removed from their original positions.
- For user convenience, all other tags and cards may be moved easily from one vehicle to another vehicle.
- Credential type and mounting location must be consistent for all readers in a particular installation.
- If used with a "HiLo" reader (dual antennas), credentials may be different types, in different locations, on different vehicle types.
- CS-UHF and GR-UHF cards read on "LR" readers through driver's window, and also on UA-612 reader for people access in buildings.

Installation Guidelines for UHF Credentials

- Before installing these credentials, read AWID's "Installation Instructions" sheet. It contains guidelines and specific steps for using these credentials.

Options and Accessories

- LR-TEK LR Reader Tech Kit: Required -- a one-time purchase for every installing dealer.
- Custom graphics: Contact your AWID Representative.

Reference

- Download product sheets, instructions, Technical Reference issues, and Technical Support memos.



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