UHF RFID · 840–960 MHZ · LONG-RANGE ON-METAL TAG

UMLT

A 100 × 30 mm on-metal UHF tag that reads metal assets at up to 15 m.

H9 chip | Up to 15 m | Direct on metal | IP68 | 512-bit user memory

Read metal assets from across the floor.

The **Identium UMLT** is a 100 × 30 × 6 mm UHF tag built to sit directly on metal and still read at up to 15 m. A handheld or fixed reader picks up tagged machines across a shop floor, or assets high on racking, from the aisle.

The impact-resistant ABS/PC housing is rated IP68 and works from –25 °C to +85 °C, indoors and out. Its H9 chip holds up to 496 bits of EPC and 512 bits of user memory, and the face takes laser engraving, laser marking or a polyester label.



15 m	100 × 30	512-bit	IP68	9 g
Read range, up to	mm, 6 mm thick	User memory	–25 °C to +85 °C	Weight

WHAT IT DOES

Read far, fix on metal, mark it

READ
H9 chip, up to 15 m

- 840–960 MHz, India's band inside
- EPC up to 496 bits
- 512-bit user memory
- 100,000 write cycles

FIX
Made for metal surfaces

- Mounts directly on metal
- Flat 100 × 30 mm footprint
- Impact-resistant ABS/PC
- IP68, –25 °C to +85 °C

MARK
IDs people can read too

- Laser engraving
- Laser marking
- Or a polyester label
- Five housing colours

WHERE IT WORKS

Where the tag goes

Plant machinery	Steel racking	Metal cages	Electrical panels	Yard equipment	Asset audits
Machines read from the aisle	Assets high on racks	Cages and containers	Panels and enclosures	Outdoor metal assets	Fixed asset verification

HOW IT WORKS

From a metal asset to your asset register

Metal assets
Machinery, racking, cages, panels and yard equipment

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UMLT
LONG-RANGE ON-METAL UHF TAG
- Sits directly on the metal
- Holds the asset number in the EPC
- Keeps 512 bits of user data
- Read at up to 15 m
- Shows the ID engraved or printed

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UHF reader
Handheld for audits, fixed reader for aisles and gates, 865–868 MHz

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Your software
Fixed asset register, maintenance or audit records

Range from the reader
Range depends on reader power, antenna gain, the metal surface and surroundings: test on your own assets first.

WHY THE UMLT

Range first, on metal

Up to 15 m on metal
Reads at up to 15 m when fixed on metal, depending on reader power, antenna gain and the metal surface.

Built for metal
Designed to mount directly on steel and other metal surfaces.

Larger footprint, more reach
At 100 × 30 mm it is longer than compact on-metal tags; plan a flat 100 × 30 mm area on each asset.

IP68 ABS/PC housing
Impact-resistant and sealed to IP68, working from –25 °C to +85 °C, for outdoor equipment as well as indoor assets.

Room for your data
H9 chip: EPC up to 496 bits and 512 bits of user memory, with 100,000 write cycles.

Marked for auditors
Laser engraving, laser marking or a polyester label shows the asset number or barcode to people too.

Five housing colours
White, grey, black, orange or blue, to tell sites, departments or asset types apart.

Passive, no battery
Powered by the reader's field, so there is no battery to change over the asset's life.

CHIP AND MEMORY

Air interface and memory

PARAMETER	UMLT	NOTES
Chip	Alien Higgs 9	Passive UHF
Frequency	840–960 MHz	Covers India's 865–868 MHz band
EPC memory	Up to 496 bits	Asset number
User memory	512 bits	Extra data beside the EPC
Write endurance	100,000 cycles	Re-encode when an asset is reassigned
Read range	Up to 15 m	Depends on reader power, antenna gain and the metal surface

Alien and Higgs are trademarks of Alien Technology, LLC.

AT A GLANCE
- Mounts directly on metal and reads at up to 15 m
- IP68 ABS/PC housing, –25 °C to +85 °C
- Laser engraving, laser marking or polyester label

SUPPLIED AS
- UMLT tags, 100 × 30 × 6 mm, 9 g
- Housing in white, grey, black, orange or blue
- Marking to order: laser engraving, laser marking or a polyester label

ORDERING

UMLT	Long-range on-metal UHF tag, 100 × 30 × 6 mm, H9 chip, IP68, up to 15 m.

SPECIFICATIONS

Technical data

RF AND CHIP	
Frequency	840–960 MHz (covers India's 865–868 MHz band)
Chip	Alien Higgs 9
Memory	EPC up to 496 bits; user memory 512 bits
Write endurance	100,000 cycles
Read range	Up to 15 m
Power	Passive (no battery)

MECHANICAL	
Dimensions	100 × 30 × 6 mm
Weight	9 g
Material	ABS/PC
Colour	White, grey, black, orange, blue
Printing	Laser engraving, laser marking, polyester label

ENVIRONMENT	
Operating temp.	–25 °C to +85 °C
Storage temp.	–25 °C to +65 °C
IP rating	IP68

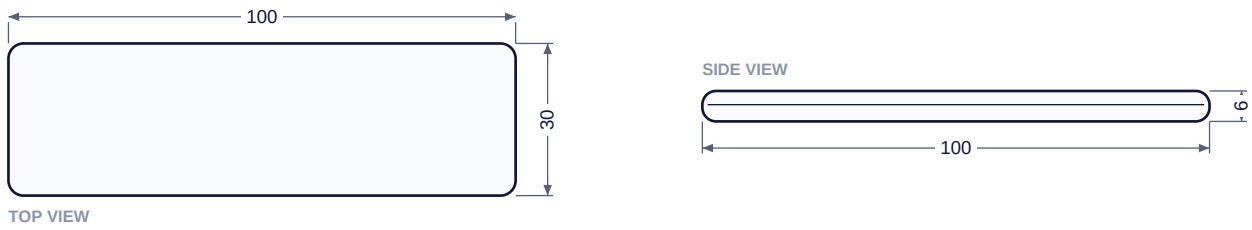
WHICH ON-METAL HARD TAG?

UMLT or UMMT

	UMLT	UMMT
Read range	Up to 15 m	Up to 10 m on metal (15 m max.)
Size	100 × 30 × 6 mm	60 × 19 × 10 mm
Chip	H9, EPC up to 496 bits	H3, EPC up to 496 bits
Choose it for	Reading across a shop floor, yard or high racking	Compact fitting on side panels and rack uprights

MECHANICAL

Dimensions



Top and side views, mm. 9 g.

Test the range on your own assets.

Ask for a quotation with the quantity, housing colour and any engraving or printing, and tell us the assets and the read distance you need.

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Read range depends on the card or tag, its size and the environment. Specifications are indicative and may change without notice; confirm details for your order in the quotation.