UHF RFID · 866–868 MHZ · MINI ON-METAL PCB TAG WITH LED

IDTS-3204-LED

A 32 × 4 mm on-metal UHF tag with an LED that lights when it is read, for tools, instruments and narrow metal parts.

LED lights on read | 32 × 4 × 2.5 mm | IP68 | 1312-bit user memory | Reads –20 to +80 °C

See which tool answered.

The **Identium IDTS-3204-LED** is a 32 × 4 mm UHF on-metal PCB tag with an LED that lights each time it is read. On a tray of instruments or a rack of similar tools, the operator sees the item that answered on the item itself.

At 2.5 mm high and about 1 g it fits tool shanks, instrument handles and narrow metal parts. The IP68 FR4 board reads at –20 °C to +80 °C (brief exposure to +150 °C), and the KX2005X-BL chip keeps 1312 bits of user memory.



0.7 m — LED seen, approx., handheld

4 mm — Wide, 32 mm long

IP68 — Sealed FR4 board

1312-bit — User memory

+150 °C — Brief exposure, max

WHAT IT DOES

Read, see the light, fit it small

READ
KX2005X-BL, EPC Gen2

- 866–868 MHz, India band version
- EPC 96–240 bits, TID 96 bits
- 1312 bits of user memory
- 100,000 write cycles

SEE
LED lights on read

- Shows the item that answered
- Approx. 0.7 m with a handheld
- For trays, racks and cribs
- Confirmation on the item

FIT
Mini on-metal bar

- 32 × 4 mm, 2.5 mm high
- About 1 g
- Designed for mounting on metal
- IP68, 1 m drop tested

WHERE IT WORKS

Where the tag goes

Hand tools — Tool cribs and kits

Instruments — Surgical instruments

Armouries — Firearm management

Metal assets — Asset registers

Logistics — Metal parts in transit

Fixtures — Fixtures and gauges

HOW IT WORKS

From a tool tray to a lit tag on the right item

Metal items
Tools, instruments, firearms, fixtures and metal parts

IDTS-3204-LED
MINI ON-METAL UHF TAG WITH LED
- Fixed on a narrow metal part
- Answers the UHF reader
- Lights its LED when read
- Seen at approx. 0.7 m
- Keeps 1312 bits of user data

UHF handheld
EPC Gen2 reader on India's 865–868 MHz band

Your software
Tool crib, instrument tracking or asset register

Pair it with a UHF handheld
A UHF handheld such as the CX1500N reads the tag; the light confirms which item answered.

WHY THE IDTS-3204-LED

LED confirmation on the smallest parts

LED lights on read
The operator sees which tool or instrument answered, without matching EPC numbers on a screen.

Only 4 mm wide
32 × 4 mm and 2.5 mm high, about 1 g: fits shanks, handles and narrow metal edges.

On-metal design
Made for mounting on metal tools, instruments and parts.

IP68 and tough
Sealed FR4 board; 10 drops from 1 m; wiped with 95% alcohol and with petrol.

Heat up to +150 °C
Reads at –20 °C to +80 °C; takes brief exposure up to +150 °C.

1312 bits of user memory
Alongside a 96–240-bit EPC and a 96-bit TID; 100,000 write cycles, 20-year retention.

Encoded to your scheme
Pre-encoded with your EPC numbers, and custom colours on volume orders.

Larger LED options
Where parts have more room, the IDTS-6010-LED and IDTS-5213-LED are in the same family.

CHIP AND MEMORY

Air interface and memory

PARAMETER	IDTS-3204-LED	NOTES
Chip	KX2005X-BL	Drives the LED on read
Air interface	ISO 18000-6C, EPC Gen2	Standard UHF readers
Frequency	866–868 MHz	Within India's 865–868 MHz band; 902–928 MHz version
EPC / TID	96–240 bits / 96 bits	Item number; unique ID
User / reserved	1312 bits / 64 bits	Item codes, service notes
Endurance	100,000 writes	20-year data retention

The LED distance depends on the reader, its power setting and the metal surface.

AT A GLANCE

- LED lights each time the tag is read
- 32 × 4 × 2.5 mm, designed for metal
- IP68; reads at –20 °C to +80 °C

SUPPLIED AS

- IDTS-3204-LED on-metal tags, black
- Pre-encoded to your numbering, and custom colours on volume orders, on request

ORDERING

IDTS-3204-LED — Mini UHF on-metal PCB tag with LED, 32 × 4 × 2.5 mm, KX2005X-BL chip, 1312-bit user memory.

SPECIFICATIONS

Technical data

RF AND CHIP	
Frequency	866–868 MHz (India band); 902–928 MHz version
Protocol	ISO 18000-6C, EPC Gen2
Chip	KX2005X-BL
Memory	EPC 96–240 bits; user 1312 bits; TID 96 bits; reserved 64 bits
Endurance	100,000 write cycles; 20-year retention

LED AND ENVIRONMENT	
LED indicator	Lights on read; approx. 0.7 m with a UHF handheld
Temperature	Reads –20 to +80 °C; brief exposure to +150 °C
Storage	–30 °C to +100 °C; 5–95% RH
Protection	IP68
Durability	10 drops from 1 m; 95% alcohol and petrol wipes

MECHANICAL	
Dimensions	32 × 4 × 2.5 mm (2.5 mm at the LED; 1.6 mm board)
Weight	Approx. 1 g
Material	FR4 PCB; SMT, high-temperature adhesive
Antenna	Double-layer copper
Colour	Black; custom colours on volume orders
Surface	Designed for mounting on metal

WHICH LED TAG?

IDTS-3204-LED or IDTS-6010-LED

	IDTS-3204-LED	IDTS-6010-LED
Size	32 × 4 × 2.5 mm	60 × 10 × 2.5 mm
User memory	1312 bits	1312 bits
Chip	KX2005X-BL	KX2005X-BL
Best for	Tools, instruments, narrow parts	Rack rails and chassis edges

MECHANICAL

Dimensions



Top and side views, mm. 2.5 mm at the centre LED, 1.6 mm board.

Try the IDTS-3204-LED on your tools.

Ask for a quotation with the quantity, the items and metal surface, and your numbering scheme, and test a sample with your own reader.

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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.