Dimension4 Tag Options

OVERVIEW

Ubisense tags offer industrially-proven reliability and cover a range of needs. All Ubisense D4 tags are compatible with Ubisense Dimension4 and Ubisense AngleID hardware families.

KEY FACTS

All Ubisense tags:

- Are Ultra-Wideband (UWB) transmitters operating in the 6-8GHz frequency range.

- Are compatible with the IEEE802.15.4f standard.

- Support programmable update rates of up to 30Hz; different rates can be used depending on whether tags are stationary or moving.

- Provide best available accuracy when used in conjunction with Ubisense Sensor infrastructure.

- Monitor battery health and report current status to the system.

CERTIFICATION

All Ubisense tags are certified for use in the following territories:

US: FCC Part 15

EU: CE

Canada: RSS-Gen, RSS-102, RSS-210, RSS-220

	Mini Tag	Industrial Tag	Integrated-Tool Tag	Externally-Powered Tag	Tag Module
Power source	LTC—7PN lithium cell	C-size lithium cell	A-size lithium cell	Connected to external power source via standard micro-USB socket/cable or proprietary 20-way connector	Powered by host device
Battery life at 1Hz*	2.5 years @ 1Hz	>10 years @ 1Hz	>10 years @ 1Hz	N/A	N/A
Battery life at 4Hz*	0.7 years @ 4Hz	6 years @ 4Hz	3 years @ 4Hz	N/A	N/A
Battery life at 8Hz*	0.4 years @ 8Hz	3 years @ 8Hz	1.5 years @ 8Hz	N/A	N/A

*In some use cases, battery lifetime may be increased by configuring different beacon rates for stationary and moving tags. Ask your Ubisense representative for more details.

Use case key

- 🟠 Asset Tracking
- 🔵 Vehicle Tracking
- 🔵 Tool Tracking

	Mini Tag	Industrial Tag	Integrated-Tool Tag	Externally-Powered Tag	Tag Module
Dimensions	54 x 40 x 14 mm (2.1 x 1.6 x 0.55")	71 x 64 x 47mm (2.8 x 2.5 x 1.85")	108 x 39 x 31mm (4.2 x 1.5 x 1.2")	42 x 32 x 21mm (1.7 x 1.3 x 0.8")	24.5 x 24.5 x 9.1mm (1.00 x 1.00 x 0.36")
Weight	35g (1.2oz.)	128g (4.5 oz.)	105g (3.7 oz.)	22g (0.8 oz.)	5g (0.18 oz.)
Temperature	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)	-40°C to 85°C (-40°F to 185°F)
Humidity	0 to 95%, non-condensing	0 to 95%, non-condensing	0 to 95%, non-condensing	0 to 95%, non-condensing	0 to 95%, non-condensing
Enclosure	• Polycarbonate (V0-rated) • Silicon rubber gasket	• ABS/PC (V0-rated) • Silicon rubber gasket	• ABS/PC (V0-rated) • Polyurethane coating	• ABS/PC (V0-rated)	• None
IP rating	IP69K	IP69K	Not Specified	Not Specified	Not Applicable
Update rate	Up to 30Hz	Up to 30Hz	Up to 30Hz	Up to 30Hz	Up to 30Hz
Peripherals & interfaces	• LEDs • Motion detector • Magnetic reed switch	• LEDs • Motion detector • Push button or Magnetic reed switch	• LEDs • Motion detector • Push button (concealed)	• LEDs • Motion detector • Push button (concealed)	• 20-way expansion header • Motion detector
Mounting methods	Industrial adhesive pad, strap mounting	Screw, strap, adhesive, Velcro mountings, Ubisense mounting plate	Adhesive, strap mounting, screws, cable ties	Adhesive, strap mounting, screws, cable ties	N/A
Ubisense part codes	D4FLAT31 (fixed battery)	D4TAG30IND-C D4TAG30NBT-C (reed switch)	D4TAG30TOOL-INT	D4TAG30TOOL-HD D4TAG30TOOL-EXT	D4MODULE30