



Omni-ID® Power 415

The Omni-ID Power 415 is a rugged active tag capable of tremendous performance while tracking assets in harsh environments. Over-molded for maximum durability and providing flexible mounting options, the Power 415 includes enough battery capacity for up to 5 years of duty in almost all applications. Radio communications penetrate snow/moisture and provide exceptional distance.

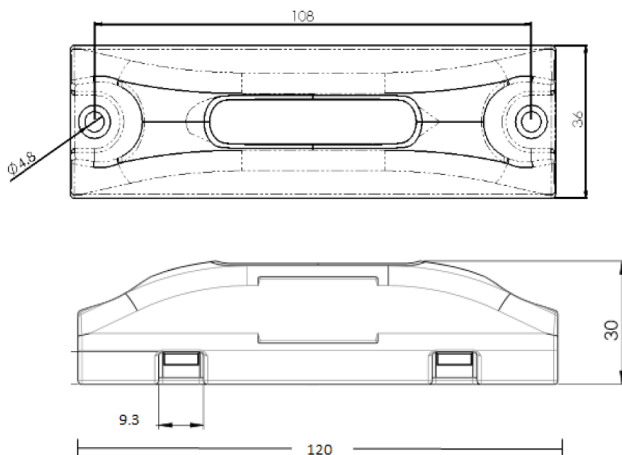
Building Intelligent Supply Chains

Omni-ID Power 415 is ideal for applications requiring long range asset tracking, particularly in harsh environments such as:

- Manufacturing: Mobile carts, containers and trolleys
- Logistics: Lay down yards, vehicles and docks
- Construction: Staging and materials tagging

Physical Specifications

Size (mm)	120 × 36 × 30
Size (in)	4.72 × 1.42 × 1.18
Weight (g)	92



Dimensions stated in mm

Dual Radio

Active

Passive

Battery	P415, Up to 5 yrs P415-X, Up to 4 yrs	Not required
Frequency Range	433 MHz	860 – 930 MHz
Read Range*	up to 400m	3 - 6m
RFID	IEEE 802.15.4	EPC Gen2 passive tag for configuration, payload specification and firmware upgrade

* Read distance can vary based on site characteristics, base station antenna type, height distance and tag configuration.

Optimal environments can significantly enhance performance.

Environmental Specifications

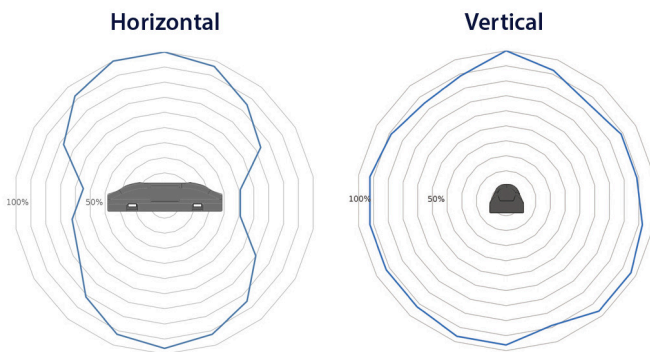
Operating Temperature	–40°C to +60°C
IP Rating	IP68 Nema PW12 (high pressure liquids immersion)
Shock and Vibration	IK07 4' drop to concrete MIL-STD-810F
Attachment	Screw attachment with two #8 screws 5mm (0.2") Cable tie slots each end
Colors and Labeling	Gray is standard with custom color options Yellow is available for ATEX/IECE Can be source encoded and labeled
Warranty	1 year

Powerful Features:

- ▶ **Long Battery Life** — Battery lasts up to 5 years under typical use cases
- ▶ **Integrated Passive Tag** — Track and commission with standard readers
- ▶ **Exceptional Toughness** — Fully sealed and over molded for the most rugged use.
- ▶ **High Gain Internal Antenna**— Exceptional range and performance in snow, ice or mud.



Radiation Pattern



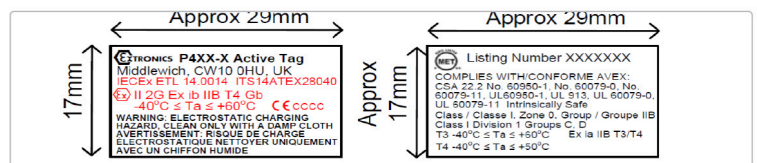
Ordering Information

Order Numbers:	OMNI-P415
Options:	X:317 (ATEX/IECEx Certification) :701 Standard Service Bureau
	Minimum order quantities apply.
Certifications	EN55022 Class A, EN50082-2 RoHS, IECEx, ATEX, CE FCC Class A digital device according to FCC Part 15

Related Products

Product Names ¹	Description
Link Gateway	Intelligent Transceiver Station, Ethernet, 24V power, enabling the relay of key data points back to the central server.
Link USB Adapter	A radio module enabling wireless connectivity and conversation between the tags and system.

¹ Other products also supporting this protocol are available from our partners, Ankaref and Guard.



IECEx Certification Laser Marking on the side of the tag



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