



SKU:	RS-H9-OMPPS-4732
Chip Type:	Alien® Higgs® 9
Frequency:	UHF (US)902-928 MHz, UHF (EU)865-868 MHz
EPC Memory:	96/496 bits
User Memory:	688 bits
Protocol:	ISO/IEC 18000-63, EPC Class 1 Gen 2
Max. Read Range:	6.6 m on metal 2.2 m embedded in concrete
IP Rating:	IP68
Industry:	Concrete and Construction Industry
Applications:	Asset Tracking, Equipment Tracking, Inventory Management

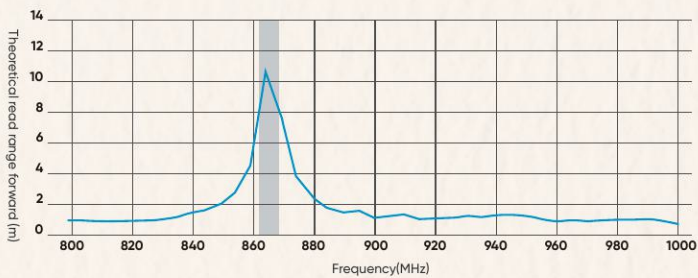
Concrete Alien® Higgs® 9 PPS RFID On-Metal Tag

This robust UHF RFID on-metal tag is constructed with a resilient PPS housing, providing exceptional resistance to heat, impact, and corrosion. It is equipped with the Alien® Higgs® 9 chip, which is specifically engineered for long-range capabilities, guaranteeing precise and dependable asset tracking in challenging industrial settings.

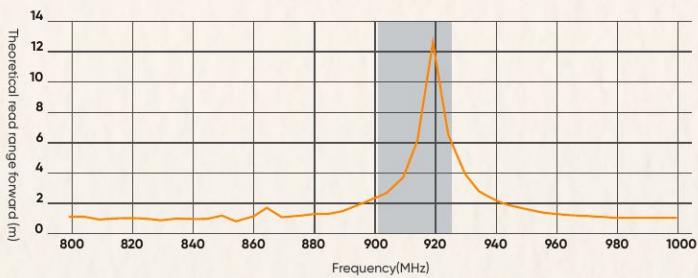
This square tag, with an IP68 rating, is capable of enduring extreme temperatures, impacts, and corrosion, making it an ideal choice for integration into concrete structures and for tracking in rigorous construction and civil engineering projects.

Reading Performance

Reading Range Under Different Frequency-ETSI Standard



Reading Range Under Different Frequency-FCC Standard



Physical Information

Material	PPS
Size	46.5×31.5 mm(Hole: Ø3.6 mm×2)
Tag Color	Black
Tag Weight	22 g
Tag Thickness	7.5 mm
Operating Environment	-25°C~+100°C
Storage Environment	+18°C~+28°C
Applicable Surface	Embedded in concrete
Mounting Method	Embedded in concrete
IP Rating	IP68

Technical Information

Operating Frequency	(US)902-928 MHz, (EU)865-868 MHz
Protocol	ISO/IEC 18000-63, EPC Class 1 Gen 2
Chip Type	Alien® Higgs® 9
EPC Memory	96/496 bits
User Memory	688 bits
TID Memory	64 bits
Read Range on Metal(Fix Reader)	6.6 m
Read Range on Metal(Handheld Reader)	4.6 m
Read range with handheld Reader when embedded in concrete	5 cm depth: 2.2 m 10 cm depth: 2 m
Security Features	Dynamic authentication™ protection, anti-cloning, anti-counterfeit technology, permanently lock user memory, 32-bit kill passwords and 32-bit access

● **Performance and Illustrations:** Graphs and visuals are for reference only; actual product performance may vary depending on usage and environment. ● **Storage and Handling Guidelines:** Follow standard ESD-safe storage and handling procedures to maintain product integrity and avoid damage. ● **Product Updates and Revisions:** [rfidbridge.com](https://www.rfidbridge.com) may change products, specs, or services at any time without prior notice. ● **General Use Disclaimer:** Products are for general-purpose use and not intended for safety-critical or life-support applications. ● **Legal Notice:** Information is believed accurate but may change. [rfidbridge.com](https://www.rfidbridge.com) is not liable for use-related issues or outcomes.