

# Compare Tag Frequency



Frequency	LF	HF	UHF	Microwave
Read Range	< 1 m	< 1.5 m	< 100m	< 10m
Data Speed	Slow ←			→ Faster
Characteristics	Short-range, low data transfer rate, penetrates water but not metal.	Higher ranges, reasonable data rate (similar to GSM phone), penetrates water but not metal.	Long ranges, high data transfer rate, concurrent read of <100 items,	Long range, high data transfer rate,
Typical Use	Animal ID Car immobiliser	Smart Labels Contact-less travel cards Access & Security	Specialist animal tracking Logistics	Moving vehicle toll
Effectiveness near Metal or Water	Good ←			→ Bad