

Frequency Guide

Frequency	2.4GHz	PRO 5GHz	24GHz	STREAM 60-70GHz	80GHz
Main Use	Wi-fi & WISP	Wi-fi & Outdoor PTP & PTMP Infrastructure	PTP Infrastructure	PTP & PTMP Infrastructure	PTP Infrastructure
Ease of Installation (Alignment)	✓	✓	Straight Forward	Straight Forward	Very Hard
Multi-Point	✓	✓	No	✓	No
Typical PTP Range UK	Up To 200M	Up To 60KM	Up To 5KM (60cm Dish)	Up To 500M	Up To 5KM (60cm Dish)
Typical PTP Range Max Power	Up To 15KM	Up To 60KM	Up To 20KM (60cm Dish)	Up To 2KM	Up To 5KM (60cm Dish)
Rain Fade	✓	✓	Barely Noticeable	High on Low Channels	Barely Noticeable
Throughput	70Mbps	Up to 1GB	500Mbps	Up to 2.5Gb	Up to 10Gb
Typical Cost	Under £100	From Under £100	From Under £5,000	From Under £1,000	From Under £7,000
Outdoor License Cost	£0	£1 per Radio, per Year Minimum. £50 per Area	£0	605/M = £0 60L = £75 for 5 Years	£50 per Link, per Year
Available Channels	3	4 in Band B 2 in Band C	4	6 or 12	6
Highest Encryption	128AES	256AES+	256AES via Add On	256AES+	256AES+
Frequency Congestion	Severe	In Major Town Centres	✓	✓	✓
Interference From Other Sources	Microwaves, DECT, Baby Cameras, etc	Radar Can Trigger DFS in Band B	✓	✓	X
Approximate Co-Location Distance	3M	50cm - 100cm	15cm	7cm	5cm
Notes	Ultra low cost but range is severely affected by congestion	Reliable and can be used for Wi-fi	TELCO	Reliable infrastructure without interference	TELCO

*Other frequencies are available but come with higher license fees, such as sub6, 7, 13, 15, 18, 23 and 38GHz.