

Wilson Connectivity Comparison Guide

		PASSIVE DAS	HYBRID DAS	ACTIVE DAS
WHAT DOES IT OFFER?		Fast, precise optimization of connectivity.	Power and agility for changing connectivity needs.	Powerful connectivity at critical scale.
WHEN IS IT USED?		UP TO 75k SQ FT In buildings or facilities up to 75K sq ft. where modern building materials, areas in the building, or tower locations are diminishing wireless connectivity.	UP TO 500k SQ FT In buildings or facilities up to 500K sq ft where wireless connectivity needs to be optimized and consistent over greater distances.	OVER 500k SQ FT In buildings or facilities over 500K sq ft with device density and coverage needs for optimized and highest quality wireless signal.
SPEED OF DEPLOYMENT		Fast	Fast	Longer
IMPORTANT ATTRIBUTES	PART OF THE WILSON CONNECTIVITY CONNECTED ARCHITECTURE	Open design, modularity, and proprietary technology make our passive DAS solutions a great place to start your wireless optimization path.	Open design, modularity and proprietary technology to mix and match bands and be ready for new technology.	Open design, modularity and proprietary technology for the greatest flexibility in adding new bands and technologies.
	ACCELERATES CONNECTIVITY	The fastest path to wireless optimization. FCC pre-approved core components ready to use off the shelf for fast installation.	Accelerates time to wireless coverage and capacity. Pre-approved core components for quicker install and fast, precise optimization of wireless connectivity with RF over fiber coverage, capacity and low attenuation.	Optimal coverage with the fastest addition of new technology. Optimal wireless capacity, coverage and quality with the ability to add any future technology from 150MHz to 5GHz.
	SIMPLIFIES OPTIMIZATION	Simplifies the process of precise optimization. The ability to optimize wideband, with the flexibility to channelize all in one unit, for power and space saving coverage.	Simplifies the process of wireless optimization for growth. Easy to add on bands to immediately optimize and provide coverage, while establishing fiber and components for the future.	The fewest components for the most bands, Wilson Connectivity Active DAS delivers ultra-wideband using the same 5 components, regardless of country or network standards or future technology.
	PROVEN AND TRUSTED	Engineered and assembled in the USA, ensuring trusted components and fewer security concerns.	Made in the USA, and the proven precision of BDA amplification plus the quality of fiber for the greatest versatility in optimization and scale.	Made in the USA, plus a direct wired connection with signal source, using fiber optics for unlimited capacity and scale. You can trust the use of RF over fiber to better resist interception.
	POWER EFFICIENT	Consumes 35X less power for 5X more bandwidth than the nearest competitor.	Consumes 10X less energy than nearest competitor. Exceptionally energy-efficient, maximizing power and gains without wasteful use of electrical power.	Fewer components save 80% space and 17% cooling energy. Additional frequencies added without new hardware, reduces manufacturing, shipping, and installation waste.

Wilson Connectivity Connected Architecture

A modular scalable foundation that makes it easier to be ready for future bands and technologies.

4330

- Embedded network scanning for best signal.
- Multi-tower targeting.
- Software defined filtering for precise channelization.
- Only cell signal amplifier with wideband and channelized mode.
- Extended dynamic range technology (XDR).
- Remote cloud monitoring of health and performance of system.
- Expandable with 140i, 710i, 1398 and WilsonPro Zinwave DAS.

140i

- FirstNet AT&T amplifier.
- Compatible with 4G/LTE/5G-NR signals.

710i

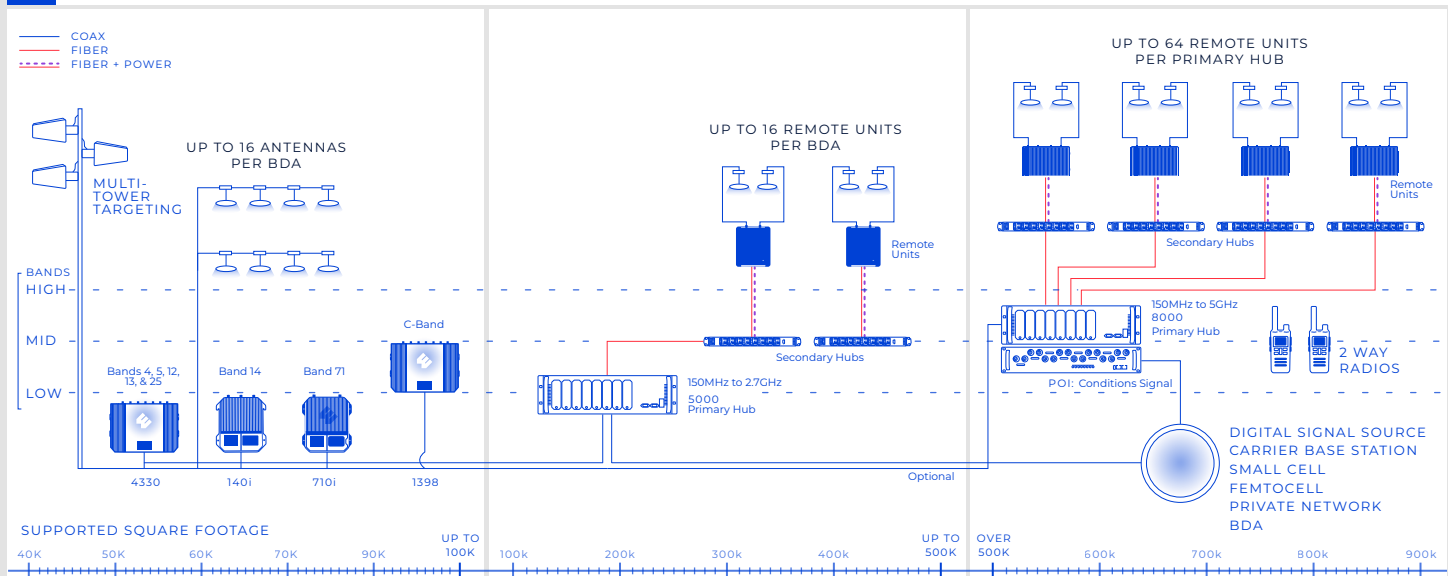
- Band 71.
- Low frequency band.
- Frequency Division Duplex (FDD) LTE spectrum.

1398

- C-band delivery.
- Time Division Duplexing (TDD) path automatic synchronization.
- Full network and anti-oscillation protection.
- Dual tower or MIMO amplification.
- Expandable with 4330 and WilsonPro Zinwave 8000.

ACTIVE DAS

- Ultimate in coverage and capacity
- Creation of signal through direct source: base station, small cell, femtocell, private network.
- Paired spectrum FDD or TDD modulation.
- Discrete TX/RX path for maximum bandwidth.
- Secure analog fiber for intrusion resistance and greater coverage.
- 5 components standardized across geographies and networks.
- Monitoring and alerting system that tracks DAS health and performance
- **5000**: Connects to 4330, 140i, 710i.
- **5000**: 150 MHz to 2.7GHz
- **8000**: Connects to 4330, 140i, 710i, 1398 or any public safety BDA.
- **8000**: 150 MHz to 5GHz



PASSIVE DAS

A Passive Distributed Antenna System (DAS) uses outside antennas to bring signals into a bi-directional amplifier (BDA)

Amplified signals are distributed through coaxial cable and inside antennas

Can amplify all signals for all carriers, or by channel

Easily add additional bands, including 14, 71, and C-Band

HYBRID DAS

Uses outside antennas to bring signals into a primary hub

Amplified signals are sent through fiber to secondary hubs and up to 16 remote units per BDA

Amplified signals are distributed through inside antennas

Radio frequency (RF) over fiber has less signal loss over longer distances and better protection from interception

ACTIVE DAS

Uses signal from any direct radio frequency (RF) source to feed into a primary hub

Amplified signals are sent through fiber to secondary hubs and up to 64 remote units per primary hub

Amplified signals are distributed through inside antennas

Direct radio frequency (RF) source and RF over fiber enable secure signal distribution at critical scale

Fewest components and the addition of all usable bands and public safety