

Revolutionize Broadband Access with 5G mmWave FWA

Cost-Effective, High-Capacity Wireless Access for
Unserved and Underserved Areas

Airspan

Empowering Connectivity with Airspan's High-Capacity FWA Solutions

Fixed Wireless Access (FWA) can be deployed using either proprietary access points or cellular base stations based on 3GPP standards, like Airspan's Air5G, to deliver last-mile connectivity for broadband services. Smaller Wireless Internet Service Providers (WISPs), who have traditionally served underserved rural markets with proprietary FWA solutions, are now facing increased competition from Tier-1 mobile operators leveraging 5G for fixed broadband in denser markets. Airspan offers a comprehensive, end-to-end 5G mmWave solution that caters to both MNOs and WISPs, providing high performance at a competitive Total Cost of Ownership (TCO).



A U.S. BASED COMPANY
300 employees in 8 locations



END-TO-END SOLUTIONS
RAN solutions with trusted partner integration



INNOVATION, OUR DNA
Disruptive Technologies Backed by Patents



20+ YEARS OF EXPERIENCE
Multiple Generations of Award-Winning Products



Awards and Recognitions



WIRELESS:
FIXED WIRELESS
(WITH PROSPECTA)



JUDGE'S CHOICE:
AWARDED TO INFINIG
(WITH AIRSPAN & COX)



ONGO NEUTRAL
HOST ARCHITECTURE/
SOLUTION:
AWARDED TO KAJEET
(WITH AIRSPAN & DRUID)



OUTSTANDING
CONTRIBUTION
TO EMERGING
TECHNOLOGY,
ARCHITECTURE &
OPEN NETWORKS



ONGO NEUTRAL
HOST ARCHITECTURE/
SOLUTION:
AWARDED TO CTS
(WITH AIRSPAN & DRUID)



JUDGE'S CHOICE:
AWARDED
TO BEARCOM
(WITH ATHONET,
AIRSPAN, & BEC)



EXCELLENCE IN
COMMERCIAL
DEPLOYMENT BY A
PRIVATE NETWORK



EXCELLENCE IN
COMMERCIAL
DEPLOYMENT BY A
MOBILE NETWORK
OPERATOR



OUTSTANDING
CONTRIBUTION TO
NEW SMALL CELL
BUSINESS CASES



2X INNOVATION AWARDS
WINNER:
DIGITAL DIVIDE (FWA) &
PRIVATE NETWORKS



BEST MOBILE
TECHNOLOGY
BREAKTHROUGH

Qualcomm Rakuten



EXCELLENCE IN
COMMERCIAL
DEPLOYMENT
Open RAN

5G



EXCELLENCE IN
RESIDENTIAL DEPLOYMENT
Urban



EXCELLENCE IN
RESIDENTIAL
DEPLOYMENT
Urban



EXCELLENCE IN
RESIDENTIAL
DEPLOYMENT
Residential

Solving Connectivity Barriers: How Airspan 5G FWA Bridges the Gap

Lack of High-Speed Internet Access

Airspan's FWA delivers Gbps-level broadband speeds comparable to optical fiber, providing high-speed internet in areas where fiber is unavailable or too costly.

High Deployment Costs for Fiber

FWA requires significantly lower capital expenditure than fiber, enabling fast and cost-effective deployments in underserved areas.

Inconsistent or Unreliable Connectivity

Airspan's carrier-grade FWA solutions, with hundreds of thousands of radios deployed to Tier 1 MNOs globally, ensure consistent, reliable connectivity.



Limited Options for Service Providers

Airspan's FWA allows service providers to offer competitive broadband options in areas with limited provider availability, helping to increase customer choice.

Slow Deployment Times

With rapid deployment capabilities, FWA can be installed in weeks, much faster than the months or years required for fiber deployments.

Geographic & Environmental Challenges

FWA eliminates the need for digging, delivering excellent performance in both line-of-sight (LOS) and non-line-of-sight (NLOS) environments.

Poor In-Building Coverage

Airspan's plug-and-play CPEs ensure seamless indoor coverage, offering easy installation and high-quality connectivity throughout buildings.

Trusted Carrier-Grade FWA Solutions for Today's Leading MNOs

FWA using licensed spectrum is emerging as a significant revenue source for MNOs. Airspan's solutions, designed to meet rigorous carrier-grade standards, have been approved and deployed by leading MNOs for many years.

MNO Deployments



Core IOT



mmW in Rakuten

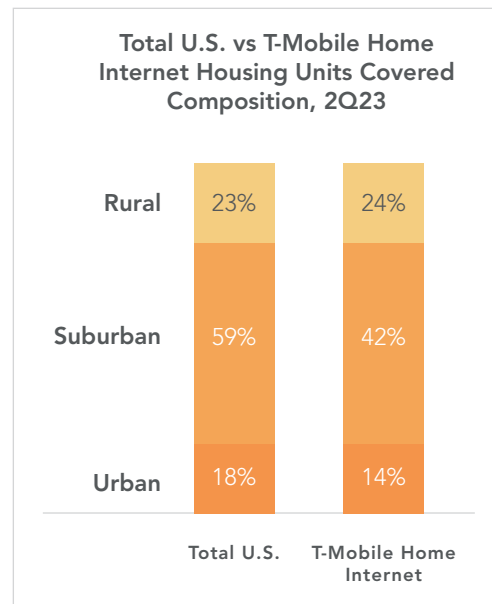
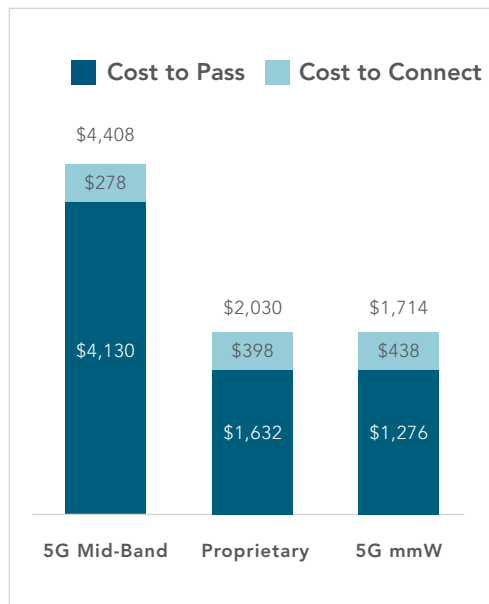


5G mmWave FWA: A Scalable Solution for Suburban Dominance and Rural Potential

Airspan mmW solution is the most cost-effective solution for suburban deployments, which is the dominant FWA market segment.

In suburban which is the main FWA market Airspan mmW provides the best **TCO per Household (HH):**

- **15% TCO gain** over proprietary solution
- **60% TCO gain** over 5G Mid-band



Future-Ready FWA: Transitioning to Mobility with 3GPP-Compliant mmWave Solutions



The Airspan mmW FWA can be leveraged for boosting capacity in mobile services using the same infrastructure.

Specifications to Maximize Capacity



Standard 3GPP technology



Utilizing granted licensed spectrum



Provides gigabits throughput per user



Mobile service usage will be triggered once and where capacity boosting will be required.

5G mmWave End-to-End Solution

mmWave Field Proven Solution

mmW CPE

AirSpot 853

4G/ 5G sub6 + mmW
mmW 45dBm EIRP

Cost effective and fully
integrated within Airspan
FWA solution



FWA mmW AP

Field Proven

Air5G 7200

128x128 (QC FSM100)
51dBm EIRP
2Gbps over 400MHz

Next Generation

Air5G 9200

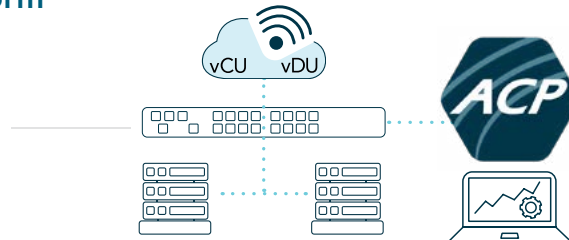
512x512 (QC FSM200)
61dBm EIRP
6Gbps over 1,000MHz



Airspan Control Platform Features (ACP)

Flexible Deployment

- Cloud based solution
- Public/private clouds or on premises



Single Pane of Glass for the
FWA end-to-end solution

Service Design
Automation & Orchestration

Full Feature Fet

- Dashboards, analytics, optimization
- Enhanced NBI to simplify integration with MNOs OSS



Reference Use Case

Bridging the Digital Divide: Airspan and Prospecta Deliver Superfast Internet to Australian Residents

Overview

Prospecta Utilities, an Australian infrastructure company, partnered with Airspan to bring high-speed internet connectivity to multi-residential and retirement communities through a **5G mmWave Fixed Wireless Access (FWA)** network. The collaboration aimed to transform digital infrastructure by providing fast, reliable broadband that can deliver triple-play services (data, voice, and video). The deployment will benefit communities across Australia, especially in locations where fiber installation is costly or delayed, offering a true alternative to fiber-based solutions.

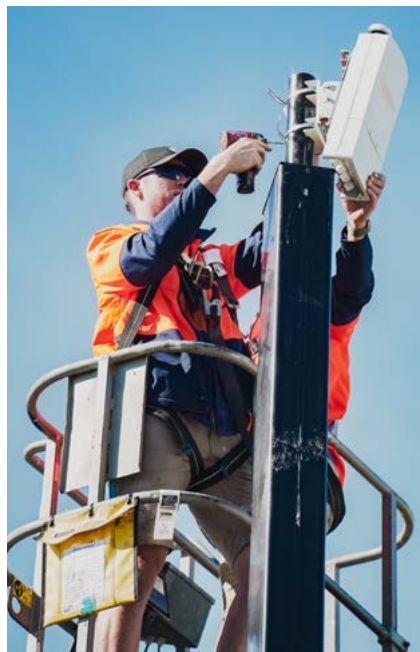
Challenges

- **Expensive fiber deployment:** Laying fiber infrastructure proved to be both costly and time-consuming, especially in suburban and rural areas.
- **Demand for high bandwidth:** As residents increasingly required high-speed internet for video streaming, video-on-demand, and telehealth services, existing solutions were unable to meet the growing demand.
- **Limited infrastructure:** The aging telco infrastructure in some areas restricted the ability to offer competitive services, leading to higher fixed fees paid to incumbent service providers.

Benefits

- **Fiber-like speeds:** Airspan's 5G mmWave FWA delivers Gbps-level speeds, comparable to fiber, ensuring residents have seamless access to high-speed internet.
- **Cost-effective deployment:** The solution eliminates the need for extensive fiber rollouts, drastically reducing deployment costs and offering rapid installation.
- **Sustainability:** With lower power consumption and a compact footprint, Airspan's technology aligns with Prospecta's commitment to sustainable infrastructure.
- **Triple-play services:** The solution provides residents with high-speed data, voice, and video-on-demand services, elevating their quality of life and enabling connectivity for modern digital services.

[Click the link to resource.](#)



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*"Elevate your wireless connectivity with Airspan.
Visit airspan.com and let's create a network that empowers your future."*

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