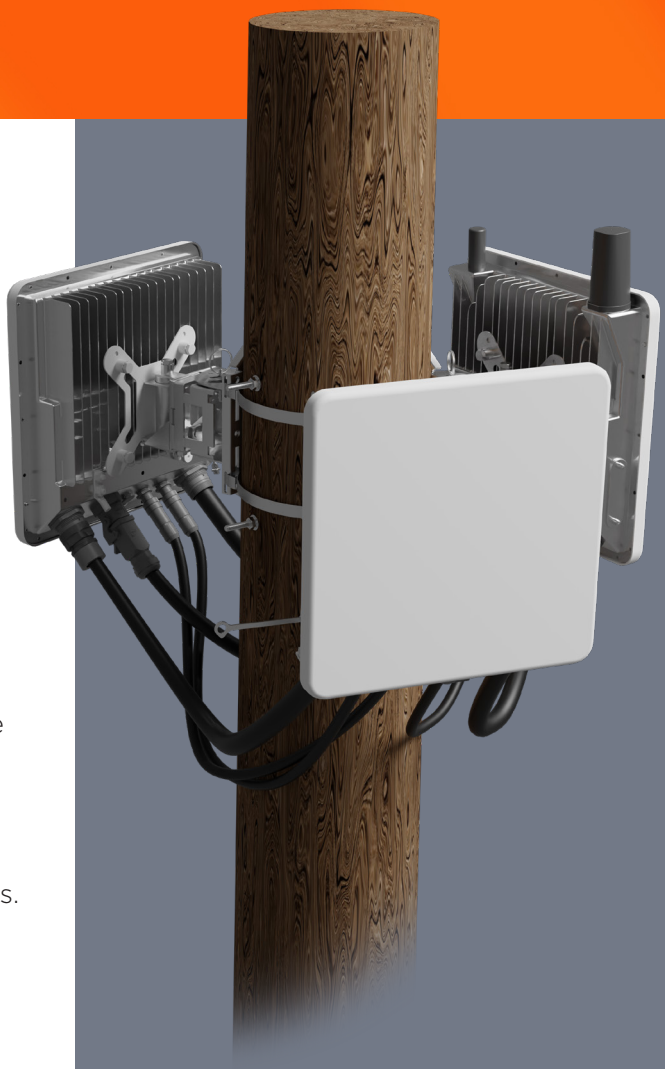
PRODUCT BRIEF

PIVOT 5G | MODEL 5620



OVERVIEW

The Pivot 5G, model 5620, is an outdoor network repeater that addresses mmWave coverage challenges by capturing and redirecting mmWave signals from the base station around obstacles like buildings. The 5620 provides coverage to Multi-Dwelling Units (MDUs), single family homes (SFUs), and enterprises that were previously out of the coverage area of nearby gNBs. Deploying the Pivot in conjunction with base stations allows operators to reach indoor and outdoor coverage objectives more effectively than using base stations alone.

By plugging coverage gaps, the 5620 expands the effective range of base stations. Its small size, easy permitting, low power consumption and no requirement for fiber, reduces overall network CAPEX, ongoing OPEX, siting costs and deployment time by minimizing the number of base stations. Using the 5620, network coverage can grow organically along with revenue.

HIGHLIGHTS

FLEXIBLE DEPLOYMENT SCENARIOS

- The Donor Unit, which acquires the gNB signal, can support one, two or three Service Units for multi-sector subscriber access.
- Multi-hop capable to two locations
- High-EIRP Service Unit for Fixed Wireless Access (FWA) and mobility use cases
- Support for coaxial or fiber connection from Donor Unit to Service Unit
- LTE-based OAM with MNVO options worldwide

RF PERFORMANCE

- 5 dB additional gain, 8 dB additional EIRP over the Pivot 5G, model 5610
- Donor Unit uses Holographic Beam Forming® (HBF) to acquire gNB signal
- 5G broadcast KPI receiver (PCI, RSRP, SINR, etc.)
- Carrier-specific filtering

TARGET USE CASES

FWA
- MDUs
- SFUs
- Enterprises

Mobile
- Transportation hubs
- Public venues
- High capacity events

Private 5G
- Industrial
- Stadiums
- Airports
- Train trackside

Defense
- Rapid FOB network deployment

PLACEMENT, INSTALLATION , COMMISSIONING AND MANAGEMENT

Determining the placement of 5620s is facilitated by Pivotal's network modelling tool, WaveScape,™ which utilizes high-resolution GIS data and AI to automatically identify existing poles and other candidate site locations that have sufficient signal to host a repeater.

5620s are installed on poles, walls or roofs using MT-120018 brackets, tool-free connectorization, and cut-to-size cabling.

5620s can be commissioned fully remotely using Pivotal's Intelligent Beam Management System (IBMS). No onsite personnel is required.

IBMS enables remote configuration, monitoring and management using out-of-band OAM, i.e., integrated LTE cat-1 module with MNO and MVNO options. IBMS offers a web-based user interface and/or API integration.

PIVOT 5G, MODEL 5620 CONFIGURATIONS

Unit	Operating Band	Antenna Type	Horizontal (Azimuth)	Vertical Elevation	Max MIMO EIRP
Donor	n257	HBF	12° (Scan +/- 45°)	12° (Scan +/- 45°)	43.5 dBm
Service	n257	Horn	70°	32°	42.5 dBm
Donor	n260	HBF	12° (Scan +/- 45°)	12° (Scan +/- 45°)	43.5 dBm
Service	n260	Horn	75°	45°	38 dBm

TAKE THE NEXT STEP

The Pivot 5G, model 5620, is supported by an ecosystem to support tools and services, such as WaveScape, a subscriber-driven network modelling and economic optimization, Intelligent Beam Management System (IBMS), for real-time network management and optimization, and Turnkey, a deployment planning and execution service.

For more information about Pivot 5G, visit https://pivotalcommware.com/pivot-5g/.

1.855.956.2016 | sales@pivotalcommware.com