

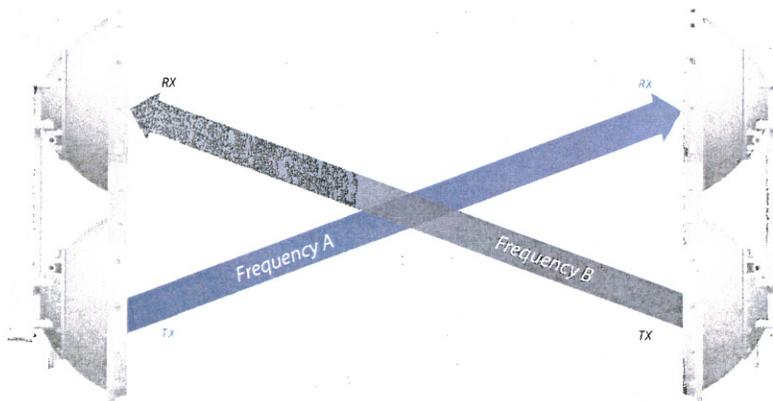
Innovative Proprietary Modem Technology

Ubiquiti's innovative proprietary modem technology was purpose-built to address the specific challenges of outdoor, PtP (Point-to-Point) bridging and high-performance network backhauls. Every aspect of the radio has been carefully simulated and designed to optimize range, speed, and latency performance in the harshest RF noise environments.

Synchronous Data Transmission and Reception

Conventional wireless standards impose a latency by having to receive a packet before a packet is transmitted. airFiber can transmit data synchronously without any wait time. airFiber features traditional TDD and FDD modes of operation in addition to the proprietary Hybrid Division Duplexing (HDD) mode, which provides a breakthrough in range and spectral efficiency performance.

Based on the ranging algorithm built into the air protocol, the airFiber radios use patent-pending HDD technology to calculate the propagation delay and know when each radio can transmit and receive, so they send packets in precise synchronization. Packet transmission latency is virtually eliminated.



airFiber AF-5/AF-5U Radios in Full-Duplex Mode

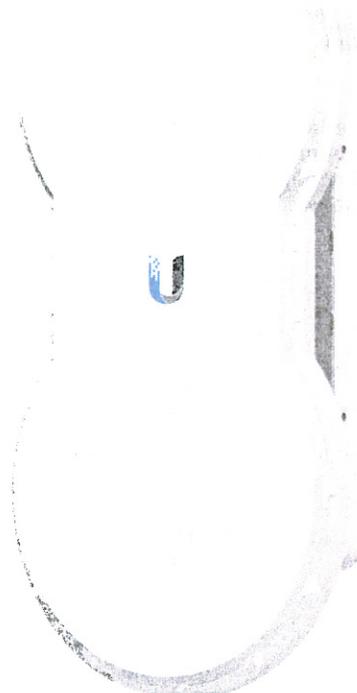
Innovative Dual-Antenna Architecture

airFiber features a dual-independent, 2x2 MIMO, high-gain reflector antenna system. Separate yet integrated transmit (TX) and receive (RX) antennas help extend link budgets by eliminating the extra RF losses caused by the switches or duplexers required in systems with common TX/RX antennas.

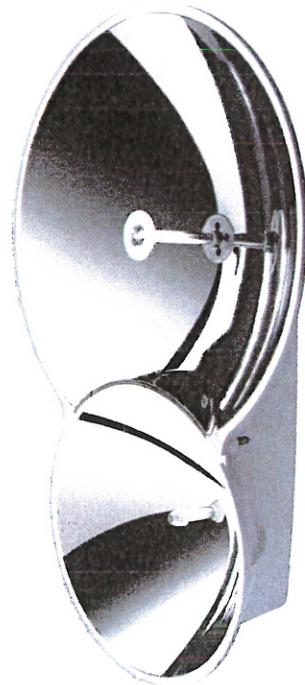
Network Management

airFiber supports a variety of features to help you manage your network:

- **Network management options** A choice between the greater security of out-of-band management and the convenience of in-band management.
- **SNMP support** Full SNMP support to aid in network management.
- **Local and remote airFiber status information** Available on the Main tab of the airFiber Configuration Interface.



airFiber AF-5/AF-5U



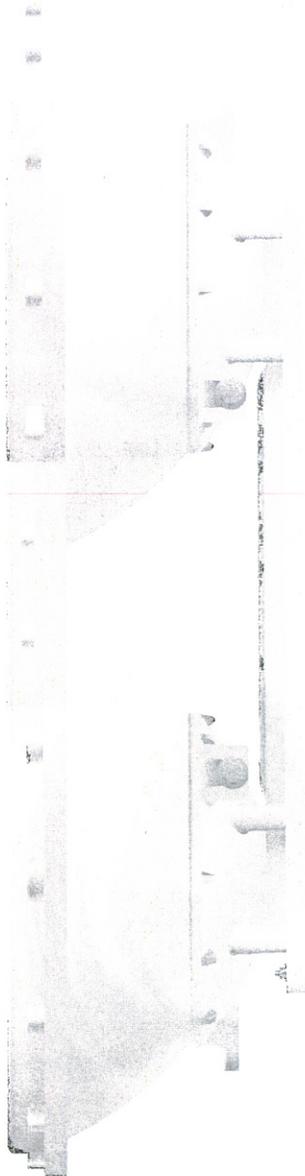
airFiber AF-24 shown without radome

airFiber® 5

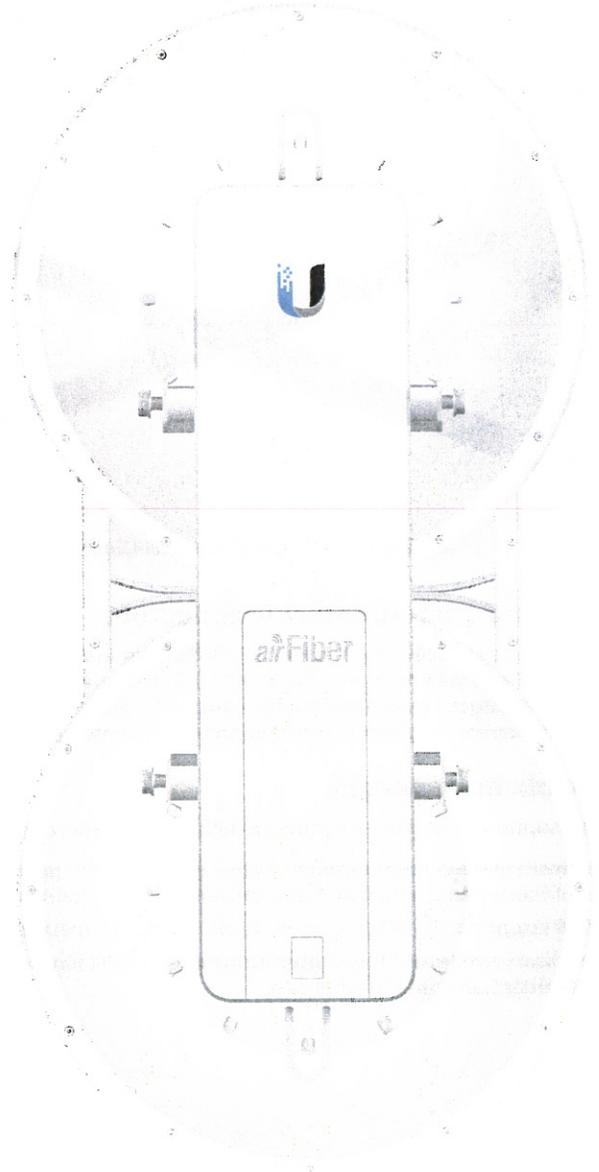
airFiber® 5U

There are two airFiber models available for the 5 GHz spectrum. The mid-band model, AF-5, features the popular mid-band frequencies, which are freely used in many parts of the world.

The high-band (5.7 - 6.2 GHz) model, AF-5U, has robust filtering to enable co-location with devices operating in the lower 5 GHz bands while allowing operation at a higher output power in many areas of the world.



Side



Back

1.2+ Gbps
Real Data Throughput

(((5 GHz)))

100+ km
← xRT →
xtreme Range Technology

HDD
TDD FDD

Superior Processing

Ubiquiti Networks introduces our proprietary INVICTUS™ core communications processing engine. The speed, power, and efficiency of this integrated circuit enhances the performance of the airFiber AF-5/AF-5U.

Efficient Use of 5 GHz Band

airFiber AF-5/AF-5U features 1 MHz center channel resolution with market-leading Power Envelope Tracking technology. The airFiber AF-5/AF-5U accurately and continuously controls transmit power relative to the band edge. The power level automatically tracks to optimize performance near band edges, allowing you to choose the part of the band with the least interference.

Long-Range Links

Newly developed for the airFiber AF-5/AF-5U, the patent-pending xRT feature uses an innovative, adaptive multi-channel coding scheme to enhance radio transceiver performance, thereby maximizing your link budget and spectrum utilization – while still maintaining regulatory compliance. This results in links that can span distances from 10 m up to 100+ km.

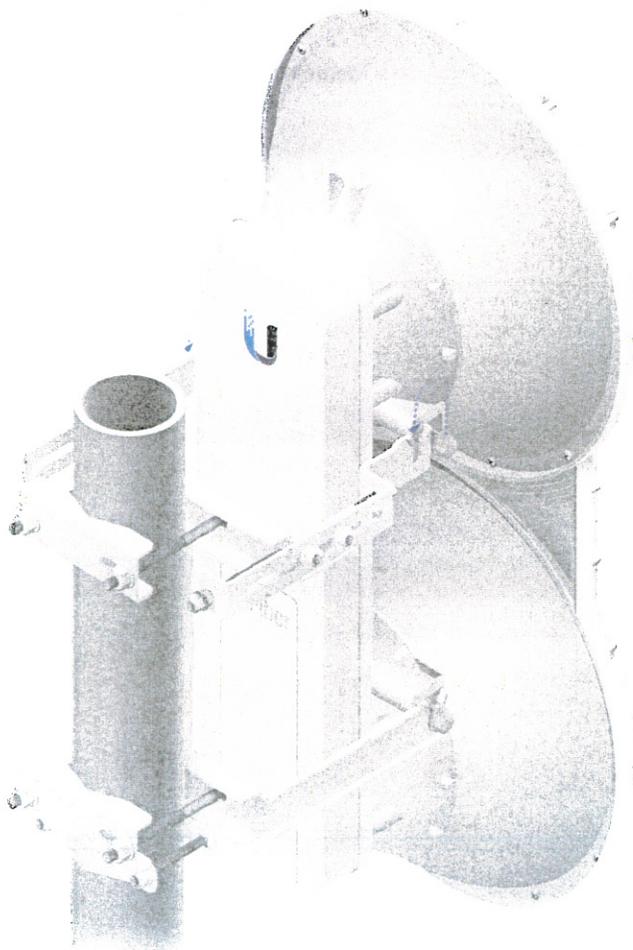
Quick and Easy Installation

The unique sliding-clamp design of the airFiber AF-5/AF-5U allows mounting hardware to be pre-assembled prior to installation – no more dropped screws at the top of the tower. As an added convenience, the drop-in cradle mount design allows the installer to attach mounting hardware to the pole without having to support the weight of the airFiber radio during installation.

Radio Alignment Display

Newly designed for the airFiber AF-5/AF-5U, the Radio Alignment Display (RAD) makes aiming quicker and easier. The dual, calibrated signal strength indicators display the actual signal strength on the local and remote airFiber radios in real time. The comprehensive array of radio status indicators display the following:

- GPS synchronization status
- Master/slave mode
- RF link status
- RF overload warning
- Current modulation mode
- Link activity and speed for wired management and data ports



Specifications

airFiber AF-5/AF-5U

Dimensions	
Radio	938.4 x 468.4 x 281.4 mm (36.94 x 18.44 x 11.08")
Box	1042 x 573 x 502 mm (41.02 x 22.56 x 19.76")
Weight	
Radio (Mount Included)	16 kg (35.27 lb)
Box	26.5 kg (58.42 lb)
Max. Power Consumption	40 W
Power Supply	50V, 1.2A PoE GigE Adapter (Included)
Power Method	Passive Power over Ethernet
Supported Voltage Range	+42 to +58VDC, -48VDC
Automatic Transmit Power Control (ATPC)	Yes
Certifications	CE, FCC, IC
Mounting	Pole Mount Kit (Included)
Wind Loading	863 N @ 200 km/hr (194 lbf @ 125 mph)
Wind Survivability	200 km/hr (125 mph)
Operating Temperature	-40 to 55° C (-40 to 131°F)
LEDs	(12) Status LEDs: Data Port Link/Activity Data Port Speed Management Port Link/Activity Management Port Speed GPS Synchronization Master/Slave Link Status Modulation Mode 0.25x to 4x, 6x, 8x, 10x (Unlabeled), Overload Remote and Local Displays (Calibrated Signal Strength)
Operating Frequency	
AF-5	
FCC 15.247, 15.407, IC RSS-210	5470 - 5600 MHz, 5650 - 5850 MHz
ETSI EN 301 893, EN 302 502	5470 - 5875 MHz
Other Regions	5470 - 5950 MHz
AF-5U	
FCC 15.247, IC RSS-210	5725 - 5850 MHz
ETSI EN 302 502	5725 - 5875 MHz
Other Regions	5725 - 6200 MHz
Interface	
Data Port	(1) 10/100/1000 Ethernet Port
Management Port	(1) 10/100 Ethernet Port
Auxiliary Port	(1) RJ-12, Alignment Tone Port
System	
Maximum Throughput	1.2+ Gbps
Maximum Range	100+ km (Dependent on Regulatory Region)
Packets per Second	1+ Million
Encryption	128-Bit AES
Uplink/Downlink Ratio	50% Fixed
Latency	
Full Duplex Mode	< 200 µs at Full Throughput
Half Duplex Mode	< 2 ms at Full Throughput
Radio Frame Synchronization	GPS
Dynamic Frequency Selection	
AF-5	CE, FCC/IC
AF-5U	CE (FCC/IC Not Applicable)

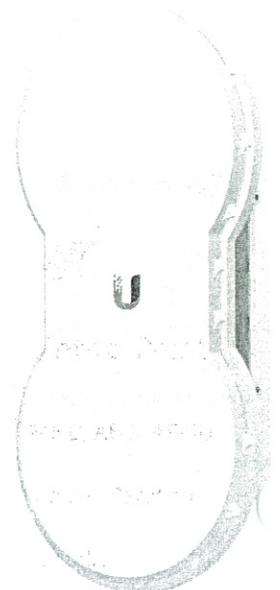
airFiber AF-5/AF-5U Suggested Max. TX Power	
10x	39 dBm
8x	43 dBm
6x	45 dBm
4x and below	47 dBm

airFiber AF-5/AF-5U Receive Sensitivity								
Rate	Modulation	Sensitivity (10 MHz)	Sensitivity (20 MHz)	Sensitivity (30 MHz)	Sensitivity (40 MHz)	Sensitivity (50 MHz)	FDD Capacity*	TDD Capacity*
10x	1024QAM	-63 dBm	-60 dBm	-59 dBm	-58 dBm	-57 dBm	1280 Mbps	640 Mbps
8x	256QAM	-70 dBm	-67 dBm	-66 dBm	-65 dBm	-64 dBm	1024 Mbps	512 Mbps
6x	64QAM	-77 dBm	-74 dBm	-73 dBm	-72 dBm	-71 dBm	768 Mbps	384 Mbps
4x	16QAM MIMO	-84 dBm	-81 dBm	-80 dBm	-79 dBm	-78 dBm	512 Mbps	256 Mbps
2x	QPSK MIMO	-90 dBm	-87 dBm	-86 dBm	-85 dBm	-84 dBm	256 Mbps	128 Mbps
1x	½ Rate QPSK xRT	-93 dBm	-90 dBm	-89 dBm	-88 dBm	-87 dBm	128 Mbps	64 Mbps
¼x	¼x QPSK xRT	-95 dBm	-93 dBm	-93 dBm	-92 dBm	-91 dBm	32 Mbps	16 Mbps

* FDD = (2) 50 MHz channels and TDD = (1) 50 MHz channel

airFiber AF-5/AF-5U Radio Frequency	
GPS	GPS Clock Synchronization
Transceiver	
EIRP	~50 dBm (Dependent on Regulatory Region and Frequency Band)
Frequency Accuracy	±2.5 ppm without GPS Synchronization ±0.2 ppm with GPS Synchronization
Channel Bandwidth	10/20/30/40/50 MHz
Modulation	1024QAM MIMO 256QAM MIMO 64QAM MIMO 16QAM MIMO QPSK MIMO ½ Rate QPSK xRT ¼ Rate QPSK xRT
Integrated Split Antenna	
TX Gain	23 dBi
RX Gain	23 dBi
Beamwidth	6°
Front-to-Back Ratio	70 dB
Polarity	Dual-Slant Polarization
Cross-Polarity Isolation	> 28 dB

airFiber AF-5/AF-5U Capacity (Mbps)						
Rate	Modulation	Channel Width (MHz)				
		10	20	30	40	50
10x	1024 QAM MIMO	256.0	512.0	768.0	1024.0	1280.0
8x	256 QAM MIMO	204.8	409.6	614.4	819.2	1024.0
6x	64 QAM MIMO	153.6	307.2	460.8	614.4	768.0
4x	16 QAM MIMO	102.4	204.8	307.2	409.6	512.0
2x	QPSK MIMO	51.2	102.4	153.6	204.8	256.0
1x	½ Rate QPSK xRT	25.6	51.2	76.8	102.4	128.0
¼x	¼ Rate QPSK xRT	6.4	12.8	19.2	25.6	32.0



airFiber[®] 24

Superior 24 GHz Performance

airFiber AF-24/AF-24HD provides a breakthrough in 24 GHz backhaul performance.

Systems for millimeter-wave frequencies typically experience RF losses when part of the RF is lost in the switches and filters.

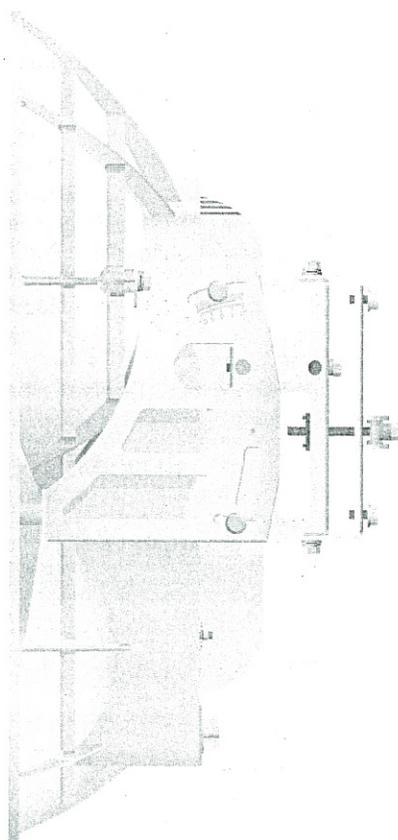
The Ubiquiti R&D team eliminated such RF losses with separate yet integrated TX and RX antennas, so the link budget is robust and the airFiber AF-24/AF-24HD has better noise figure and higher transmit power efficiency.

Two airFiber 24 GHz Models

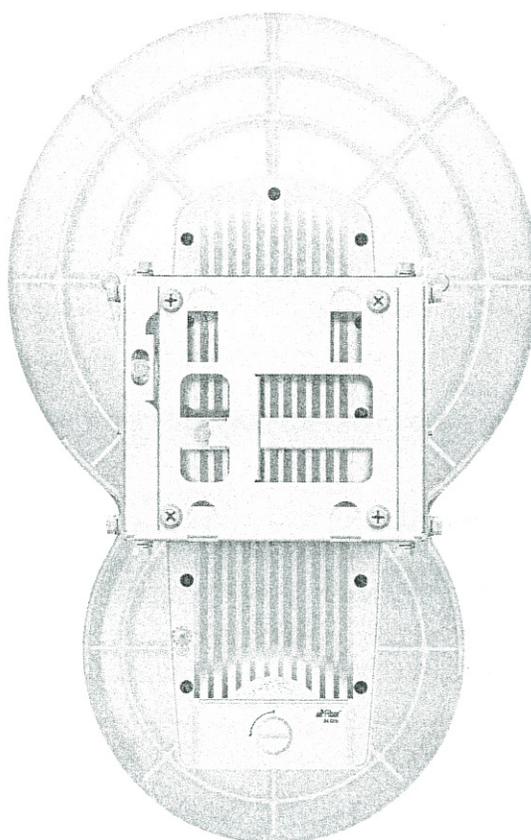
Two models deliver superior speed with spectral efficiency in the worldwide, license-free, 24 GHz radio band.

The standard model, AF-24, delivers up to 1.5+ Gbps throughput at a range of up to 13+ km.

The heavy-duty model, AF-24HD, provides more throughput at up to 2 Gbps and increased range of up to 20+ km. It also includes a more rugged exterior with a metal reflector, to protect against nature's harshest elements.



Side



Back

1.5+ Gbps

Real Data Throughput

24 GHz
License-Free

13+ km

Extreme Range

HDD
TDD FDD

Specifications

airFiber AF-24	
Operating Frequency	24.05 – 24.25 GHz*
Dimensions	
Radio	649 x 426 x 303 mm (25.55 x 16.77 x 11.93")
Box	725 x 520 x 410 mm (28.54 x 20.47 x 16.14")
Weight	
Radio (Mount Included)	10.5 kg (23.15 lb)
Box	17 kg (37.48 lb)
Max. Power Consumption	50 W
Power Supply	50V, 1.2A PoE GigE Adapter (Included)
Power Method	Passive Power over Ethernet
Supported Voltage Range	+42 to +58VDC, -48VDC
Certifications	CE, FCC, IC
Wind Loading	480 N @ 200 km/hr (108 lbf @ 125 mph)
Wind Survivability	200 km/hr (125 mph)
Mounting	Pole Mount Kit (Included)
Operating Temperature	-40 to 55° C (-40 to 131° F)
LEDs	(8) Status LEDs: Data Port Speed Data Port Link/Activity Configuration Port Speed Configuration Port Link/Activity GPS Synchronization Modulation Mode Master/Slave RF Status (1) Two-Digit LED Display Calibrated in dBm
Interface	
Data Port	(1) 10/100/1000 Ethernet Port
Configuration Port	(1) 10/100 Ethernet Port
Auxiliary Port	(1) RJ-12, Alignment Tone Port
System	
Maximum Throughput	1.5+ Gbps
Maximum Range	13+ km
Packets per Second	> 1 Million
Encryption	128-Bit AES
Uplink/Downlink Ratio	50% Fixed
Latency	
Full Duplex Mode	< 200 μ s at Full Throughput
Half Duplex Mode	< 2 ms at Full Throughput

* Two 100 MHz channels are available:: 24.1 GHz (24.05-24.15 GHz) and 24.2 GHz (24.15-24.25 GHz)

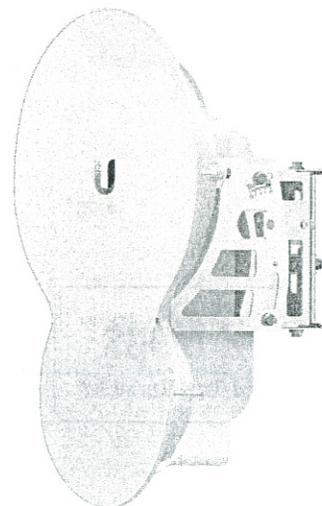
airFiber AF-24 Receive Sensitivity			
Modulation	Sensitivity	FDD Capacity*	TDD Capacity*
64QAM	-66 dBm	1500 Mbps	760 Mbps
16QAM	-72 dBm	1000 Mbps	507 Mbps
QPSK MIMO	-78 dBm	500 Mbps	253 Mbps
QPSK SISO	-80 dBm	250 Mbps	127 Mbps
¼x QPSK SISO	-87 dBm	62.5 Mbps	31.7 Mbps

* FDD = (2) 100 MHz channels and TDD = (1) 100 MHz channel

airFiber AF-24 Radio Frequency	
GPS	GPS Clock Synchronization
Transceiver	
EIRP	~33 dBm (FCC/IC), ~20 dBm (CE), ~40 dBm (Other Regions)
Frequency Accuracy	±2.5 ppm without GPS Synchronization ±0.2 ppm with GPS Synchronization
Channel Bandwidth	100 MHz
Operating Channels	24.1 GHz, 24.2 GHz
Modulation	64QAM MIMO 16QAM MIMO QPSK MIMO QPSK SISO ¼x QPSK SISO
Integrated Split Antenna	
TX Gain	33 dBi
RX Gain	38 dBi
Beamwidth	< 3.5°
Front-to-Back Ratio	70 dB
Polarity	Dual-Slant Polarization
Cross-Polarity Isolation	> 28 dB

airFiber AF-24 Capacity (Mbps)		
Rate	Modulation	100 MHz Channel Width*
6x	64 QAM MIMO	1500.0
4x	16 QAM MIMO	1000.0
2x	QPSK MIMO	500.0
1x	QPSK SISO	250.0
¼ x	¼ QPSK SISO	62.5

* Aggregated capacity in Full-Duplex mode



airFiber® 24 HD

Best-in-Class Performance and Range

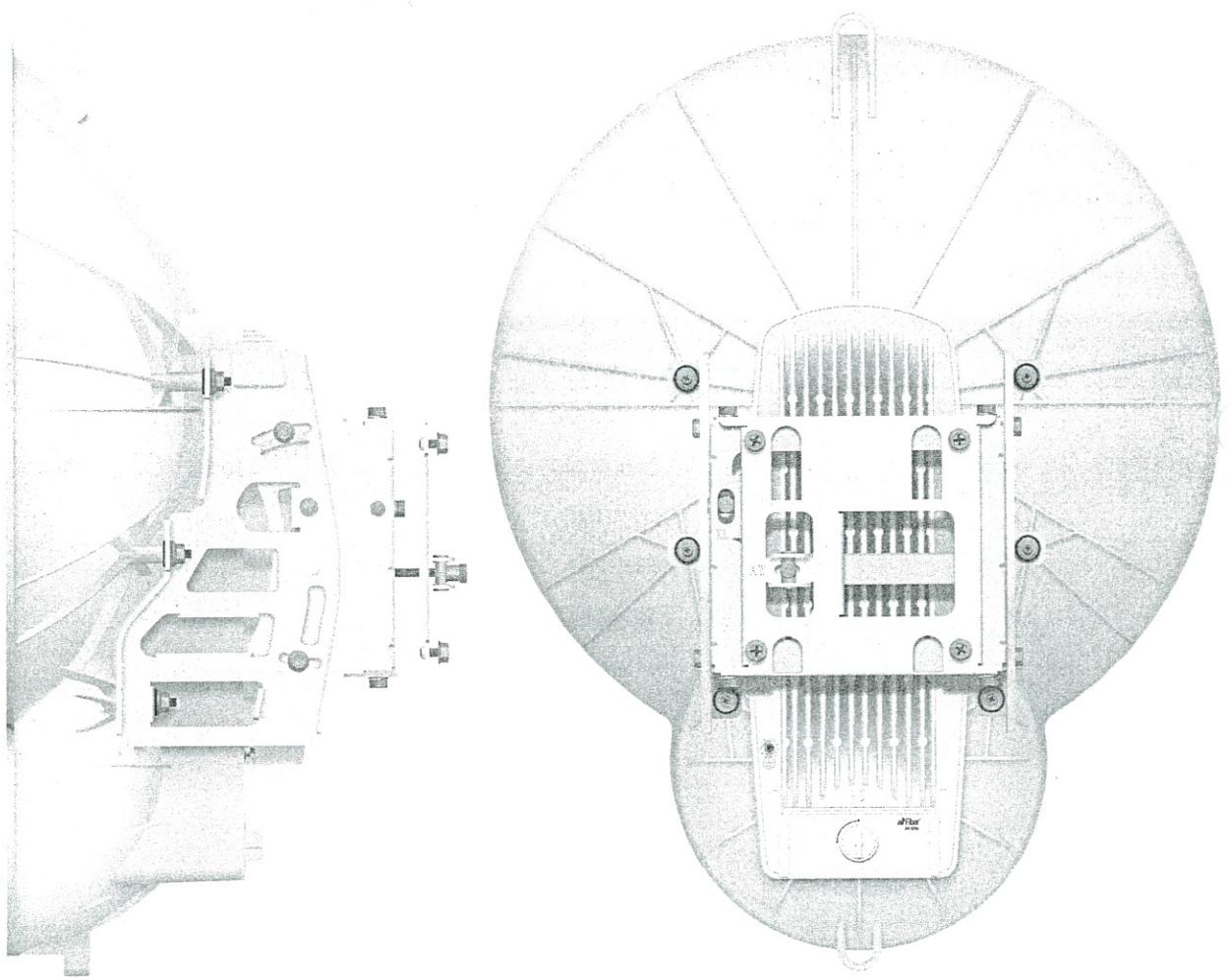
Our INVICTUS custom silicon dramatically improves wireless performance. The AF-24HD model supports the dense modulation rates, up to 256QAM, that are required for high data rates, up to 2 Gbps.

The airFiber AF-24/AF-24HD features the most powerful automatic compensation for path loss degradation due to rain fade, so it provides the best range among 24 GHz products and allows for constellation threshold extension.

Robust Mechanical Assembly

An independent lab has tested the airFiber mechanical assembly to meet MIL-STD-810G, a rigorous United States MIL-STD (Military Standard) that defines a variety of challenging environmental conditions.

The mechanical assembly has also undergone vibration testing using an extended version of IEC 60068-2-6, an environmental standard of the IEC (International Electrotechnical Commission).



Side

Back

2 Gbps
Real Data Throughput

24 GHz
License-Free

20+ km
Extreme Range

HDD
TDD FDD

Specifications

airFiber AF-24HD	
Operating Frequency	24.05 – 24.25 GHz
Dimensions	
Radio	593 x 768 x 370 mm (23.35 x 30.24 x 14.57")
Box	796 x 696 x 49.5 mm (31.34 x 27.40 x 1.95")
Weight	
Radio (Mount Included)	17.3 kg (38.14 lb)
Box	25.5 kg (56.22 lb)
Max. Power Consumption	50 W
Power Supply	50V, 1.2A PoE GigE Adapter (Included)
Power Method	Passive Power over Ethernet
Supported Voltage Range	+42 to +58VDC, -48VDC
Certifications	CE, FCC, IC
Wind Loading	770 N @ 200 km/hr (170 lbf @ 125 mph)
Wind Survivability	200 km/hr (125 mph)
Mounting	Pole Mount Kit (Included)
Operating Temperature	-40 to 55° C (-40 to 131° F)
LEDs	(8) Status LEDs: Data Port Speed Data Port Link/Activity Configuration Port Speed Configuration Port Link/Activity GPS Synchronization Modulation Mode Master/Slave RF Status (1) Two-Digit LED Display Calibrated in dBm
Interface	
Data Port	(1) 10/100/1000 Ethernet Port
Configuration Port	(1) 10/100 Ethernet Port
Auxiliary Port	(1) RJ-12, Alignment Tone Port
System	
Maximum Throughput	2 Gbps
Maximum Range	20+ km
Packets per Second	1+ Million
Packets per Second	> 1 Million
Encryption	128-Bit AES
Uplink/Downlink Ratio	50% Fixed
Latency	
Full Duplex Mode	< 200 μ s at Full Throughput
Half Duplex Mode	< 2 ms at Full Throughput

airFiber AF-24HD Receive Sensitivity			
Modulation	Sensitivity	FDD Capacity*	TDD Capacity*
256QAM	-60 dBm	2000 Mbps	1024 Mbps
64QAM	-66 dBm	1500 Mbps	760 Mbps
16QAM	-72 dBm	1000 Mbps	507 Mbps
QPSK MIMO	-78 dBm	500 Mbps	253 Mbps
QPSK SISO	-80 dBm	250 Mbps	127 Mbps
¼x QPSK SISO	-87 dBm	62.5 Mbps	31.7 Mbps

* FDD = (2) 100 MHz channels and TDD = (1) 100 MHz channel

airFiber AF-24HD Radio Frequency

GPS	GPS Clock Synchronization
Transceiver	
EIRP	~33 dBm (FCC/IC), ~20 dBm (CE), ~40 dBm (Other Regions)
Frequency Accuracy	±2.5 ppm without GPS Synchronization ±0.2 ppm with GPS Synchronization
Channel Bandwidth	100 MHz
Operating Channels	24.1 GHz, 24.2 GHz
Modulation	256QAM MIMO 64QAM MIMO 16QAM MIMO QPSK MIMO QPSK SISO ¼x QPSK SISO
Integrated Split Antenna	
TX Gain	33 dBi
RX Gain	40 dBi
Beamwidth	< 3.5°
Front-to-Back Ratio	70 dB
Polarity	Dual-Slant Polarization
Cross-Polarity Isolation	> 28 dB

airFiber AF-24HD Capacity (Mbps)

Rate	Modulation	100 MHz Channel Width*
8x	256 QAM MIMO	2000.0
6x	64 QAM MIMO	1500.0
4x	16 QAM MIMO	1000.0
2x	QPSK MIMO	500.0
1x	QPSK SISO	250.0
¼x	¼ QPSK SISO	62.5

* Aggregated capacity in Full-Duplex mode



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Symmetrical Horn Carrier Class

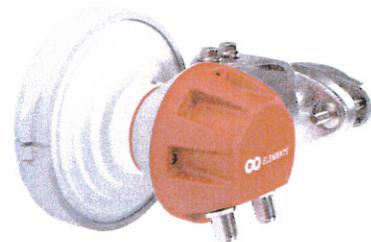
SH-CC 5-60

CONNECTORIZED SYMMETRICAL HORN ANTENNA WITH CARRIER CLASS PERFORMANCE

The SH-CC Series offer unique RF performance in a very compact package. Scalar horn antennas have symmetrical beams with identical patterns in the Vertical and Horizontal plain. Extremely small side lobes secure greatly decreased interference.

SH-CC Antennas are ideal for covering areas with close in clients where null zone issues occur. High density AP clusters and radio co-location is now practical due to very unique RF radiation patterns and compact size.

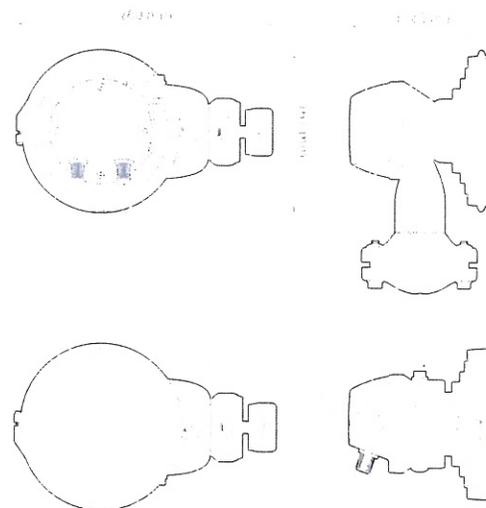
SH-CC 5-60 antenna is equipped with N-female connectors.



TECHNICAL DATA

Radio Connection	2x N Female Bulkhead Connector
Antenna Type	Horn
Materials	UV Resistant polycarbonate, Polypropylene, Aluminium, Zinc, Stainless Steel
Environmental	IP55
Pole Mounting Diameter	15-86 mm
Temperature	-30°C to +55°C (-22°F to +131°F)
Wind Survival	160 km/hour
Mechanical Tilt	± 25°
Weight	1.8 Kg / 4 lbs – single unit 2.5 Kg / 5.5 lbs – single unit incl. package 26.3 Kg / 58 lbs – carton (10 units)
Single Unit	Retail Box: 31.5 x 19.5 x 22 cm
10 Units	Carton Box: 111 x 34 x 41 cm

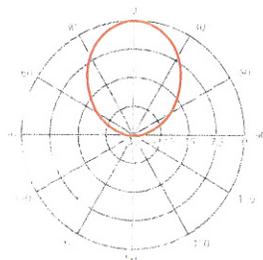
PRODUCT DIMENSIONS



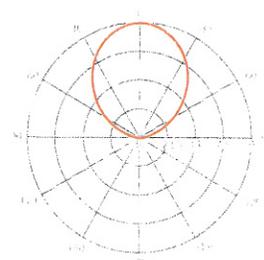
PERFORMANCE

Frequency Range	5180 - 6100 MHz
Gain	13.2 dBi
Azimuth/Elevation BW -3 dB	H 41° / V 41°
Azimuth/Elevation BW -6 dB	H 60° / V 60°
Front-to-Back Ratio	36 dB
VSWR Max	1.8
Polarization	Dual Linear H + V
Impedance	50 Ohm

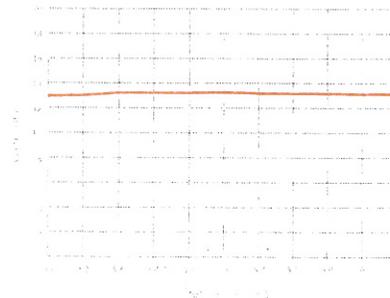
AZIMUTH PATTERN



ELEVATION PATTERN



GAIN



V.H Gain 100%





Super Sector

With the fastest client speeds and great access point capacity, along with local and network-wide spectrum reuse, the Mimosa A5c delivers the highest possible scale for any unlicensed fixed wireless network. The A5c is well suited for long range pole and tower multipoint applications, Access Point Collocation (GPS Sync) and Municipal and Rural Licensed Public Safety multipoint (4.9 GHz).

Increased Capacity at Each Site

With integrated high precision GPS Sync technology, new A5c sectors can easily be added at existing Mimosa A5 and B5 sites and reuse the same channel. This saves valuable, scarce unlicensed spectrum resources when new A5c devices are installed "back-to-back" on the same tower or pole.

Ultra High Client Capacity

TDMA techniques provide significant improvements when scaling the number of clients. By dynamically allocating timeslots and supporting Multi-User MIMO in the downstream direction and allocating upstream timeslots upon client request, network scale, spectrum efficiency and access point utilization are optimized to the highest degree possible.

Network Scalability Perfected

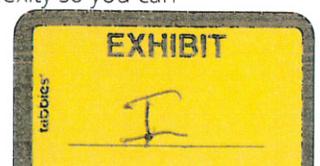
Every deployed device is collaboratively synchronized across the network. This allows easy channel reuse to save valuable spectrum network wide. Connected to Mimosa Cloud, deployment of the A5c is incredibly simple with network spectrum use and performance optimized across all of your deployed devices.

Fiber Speeds

With client speeds capable of 500 Mbps+ and access point capacity up to 1.5 Gbps, the A5 delivers the speeds consumers and business users demand at a fraction of the cost of delivering Fiber to the Premises.

4 H subscribers with Ease

Install, aim and go! We've eliminated manual installation and pre-provisioning complexity so you can focus on adding subscribers quickly!



Performance

Performance

- **Max Throughput:** Up to 1.0 Gbps IP (1.7 Gbps PHY)
- **Client Capacity:** 100 Clients
- **Wireless Protocols:** WiFi Interop
Mimosa GPS Sync (TDMA)**

Radio

- **MIMO & Modulation:** 4x4:4 MIMO OFDM up to 256-QAM
- **Bandwidth*:** 20/40/80 MHz channels tunable in 5 MHz increments for GPS Sync; Tunable to standard WiFi channels for WiFi Interop
- **Frequency Range:** 4900 - 6200 MHz restricted by country of operation (*new US/FCC 5600-5650 support)
- **Max Output Power:** 30 dBm
- **Sensitivity (MCS 0):**
 - 87 dBm @ 80 MHz
 - 90 dBm @ 40 MHz
 - 93 dBm @ 20 MHz

Power

- **Max Power Consumption:** 25W
- **System Power Method:** 802.3at compliant
- **PoE Power Supply:** Passive POE compliant, 48-56 V Power over Ethernet supply with IEC61000-4-5 surge protection

Physical

- **Dimensions:**
 - Height: 300 mm (11.81")
 - Width: 151 mm (5.94")
 - Depth: 85 mm (3.35")
- **Weight:** 1.75 kg (3.86 lbs)
- **Enclosure Characteristics:** Outdoor UV-stabilized engineered polymer with integrated mounting panel
- **Mounting:** Dual pole strap mount and slip on mount for comparable antenna
- **Connector Type:** Female Type N (x4)

Environmental

- **Outdoor Ingress Protection Rating:** IP67
- **Operating Temperature:** -40°C to +55°C (-40°F to 131°F)
- **Operating Humidity:** 5 to 100% condensing

- **Operating Altitude:** 4,420 m (14,500') maximum
- **Shock & Vibration:** ETS 300-019-2-4 class 4M5

Features

- **Gigabit Ethernet:** 10/100/1000-BASE-T
- **Multi-User MIMO**:** Device leverages beamforming to transmit to multiple clients simultaneously
- **Synchronization**:** GPS+GLONASS allows for network-wide sync and interference avoidance
- **Collocation**:** 1PPS GPS Tx/Rx synchronization for same tower collocation and channel reuse
- **Network Processing:** Advanced AP control for capacity and subscriber management
- **Management Services:** Mimosa cloud monitoring and management SNMPv2** & Syslog legacy monitoring HTTPS, HTML 5-based Web UI, 2.4 GHz 802.11b/g/n radio for local management access
- **Smart Spectrum Management:** Active scan monitors/logs ongoing RF interference across channels (no service impact), Dynamic auto-optimization of channel and bandwidth use
- **Security:** WPA2 + Mimosa 802.1x RADIUS Management VLAN support
- **QoS:** Supports 4 pre-configured QoS levels
- **GPS Location:** GNSS1 (GPS + GLONASS)
- **Traffic Shaping:** Per CPE UL/DL commit and maximum rate shaping
- **Access Control List:** Permit, Deny and Remark Layer 2 and Layer 3 traffic flows

Regulatory + Compliance

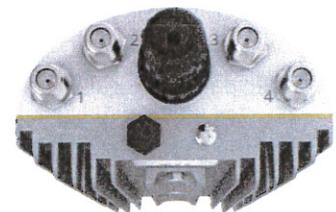
- **Approvals:** FCC Part 15.407 and Part 90Y, IC RSS210, CE, ETSI 301 893/302 502
- **RoHS Compliance:** Yes
- **Safety:** UL/EC/EN/ 60950-1 + CSA-22.2

* 4.9 GHz uses 20 MHz channel widths

** Enabled in future software releases



A5c Backplate



A5c Connectors