

Ubiquiti UISP airFiber 11GHz Dish Radio and high band duplexer kit

Ubiquiti UISP airFiber 11GHz Dish Radio and high band duplexer kit, AF-11KIT-H H, Includes AF-11G35 35 dBi Dish Antenna and AF-11duph duplexer, Designed for Outdoor Point-to-point bridging in the 11 GHz licensed band, Operating Frequency range of 10.7 to 11.7 GHz, Max Throughput of 1.2+ Gbps over a Max range of 300+ km, Features 128-bit AES Encryption for Secure Data transmission, 1x GbE RJ45 Port, 1x 10/100 MbE RJ45 Port, Powered via Passive PoE 4-pairs or Terminal Block direct-wire W, RF connectors include Four Weatherproof SMA and two Waterproof N-type Ports



Specifications

Overview Summary:

Upgrade your network infrastructure with the Ubiquiti UISP airFiber 11GHz Dish Radio and High Band Duplexer Kit, now available for delivery across South Africa. This robust solution delivers carrier-class performance for long-distance Point-to-Point bridging, ensuring low latency and superior throughput to keep your business connected reliably.

Designed with custom silicon and proprietary radio architectures, the AF-11KIT-H supports both SISO and MIMO configurations to suit specific licensing requirements. Whether you need high-bandwidth backhaul or a secure connection over extreme distances, this kit provides the flexibility and power needed for modern deployments. Secure your network today by buying now.

Performance tier:Enterprise

Uses:Carrier-class backhaul, long-distance bridging, high-throughput networks, licensed 11GHz spectrum deployment, outdoor wireless connectivity

Overview:

The Ubiquiti airFiber AF-11KIT-H is a complete high-band backhaul solution designed for outdoor point-to-point bridging and carrier-class network applications. This kit includes the AF-11 radio, an AF-11G35 35dBi dish antenna, and an AF-11DUPH single high-band duplexer, all engineered to operate efficiently within the 11GHz licensed frequency band. By leveraging custom silicon and proprietary radio architectures, this system delivers superior long-range performance with minimal latency, making it ideal for deployments where reliability and throughput are critical.

Description:

This comprehensive kit provides a robust networking solution that breaks free from the congestion of standard 5GHz bands, offering high throughput and exceptional range. The modular design supports both single-input single-output (SISO) and multi-input multi-output (MIMO) configurations, allowing network administrators to adapt channel widths and duty cycles to specific licensing requirements. Managed seamlessly through the UISP platform, it ensures easy deployment and monitoring for complex backhaul networks requiring secure and stable connections.

The system supports flexible networking options with independent TX and RX frequency configuration, enabling optimized uplink and downlink performance tailored to your specific environment. Whether you require a compact setup or an extended range link, the AF-11 radio adapts to meet demanding carrier-grade standards while maintaining NDAA compliance for secure

operations.

Features:

Key Specifications

- Part Number: AF-11KIT-H
- System Type: Modular airFiber 11GHz Backhaul Radio with Dish Antenna
- Maximum Throughput: Over 1.2 Gbps
- Operating Frequency Range: 10.7 to 11.7 GHz (region dependent)
- Maximum Range: Up to 300 km under optimal conditions
- Encryption Standard: 128-bit AES for secure data transmission
- Interface Ports: One Gigabit RJ45 and one 10/100 MbE RJ45 port
- Power Method: Passive PoE 4-pairs or terminal block direct-wire (38-56V DC)
- Ambient Operating Temperature: -40 to 55 degrees Celsius (-40 to 131 degrees Fahrenheit)
- Certifications: CE, FCC, IC compliant

Radios and Antenna Performance

The included AF-11G35 dish antenna delivers a powerful 35 dBi gain with precise beamwidths of 2.5 degrees for both horizontal and vertical polarization, ensuring focused signal delivery over long distances. The system supports wind survivability up to 200 km/h (125 mph) and includes robust mounting compatibility for pole installations. Channel bandwidth options are highly configurable, supporting widths from 3.5 MHz up to 56 MHz depending on local regulations, with programmable duty cycles to maximize spectral efficiency.

RF connectivity is handled via four SMA weatherproof connectors per chain and two N-Type waterproof ports for the duplexer, ensuring durability in harsh outdoor conditions. The unit maintains a maximum conducted TX power of 30 dBm with frequency accuracy within plus or minus 1 ppm, providing stable performance across varying environmental factors.

What's in the box

- Ubiquiti AF-11 Radio Unit
- AF-11G35 35dBi Dish Antenna with Mounting Hardware
- AF-11DUPH High-Band Duplexer (Pre-installed for SISO mode)
- Gigabit PoE Adapter (50V DC, 1.2A)

Note that the kit comes with one high-band duplexer pre-installed to support SISO operation immediately. For users requiring MIMO mode capabilities, a second duplexer model AF-11-DUP-H is available separately as an optional accessory.

Specifications:

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Specifications	
Product Code	AF-11KIT-H
airFiber AF-11	
Dimensions	327 x 112 x 86 mm (12.9 x 4.4 x 3.4")
Weight	2.3 kg (5 lb)
Mounting	AF-11G35 mount compatible
Hardware	

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Product Specification Sheet

Networking interface	(1) GbE RJ45 port
	(1) 10/100 MbE RJ45 port
Power method	Passive PoE 4-pairs (1, 2+ , 3, 6-) (4, 5+ , 7, 8-)
	Terminal block direct-wire
Power supply	50V DC, 1.2A gigabit PoE adapter (Included)
Supported voltage range	38-56V DC
Max. power consumption	36W
RF connectors	(4) SMA Weatherproof, Two per Chain: TX 0, RX 0 (Chain 0) and TX 1, RX 1 (Chain 1)
	(2) N-Type Waterproof, One per Duplexer
Ambient operating temperature	-40 to 55degrees C (-40 to 131degrees F)
Certifications	CE, FCC, IC
NDAA Compliant	Yes
Software	
Modes	SISO/MIMO
	* Comes with (1) High-Band Duplexer pre-installed for SISO mode. For MIMO mode, a second Duplexer is available, model AF-11-DUP-H.
System	
Max. throughput	1.2+ Gbps
Max. range	300+ km
Encryption	128-bit AES
RF	
Operating frequency	10.7-11.7 GHz
	*Depends on regional regulations.
Max. conducted TX power	30 dBm
	*Depends on regional regulations.
Frequency accuracy	+/- 1 ppm
Channel bandwidth	3.5/5/7/10/14/20/ 28/30/40/50/56 MHz selectable
	Programmable Uplink and Downlink duty cycles
	* For region-specific details, refer to the Compliance chapter of the airFiber AF-11FX User Guide at ui.com/download/airfiber
	**Channel widths may vary according to country/region regulations.
airFiber AF-11G35	
Dimensions	811 x 811 x 460 mm (31.9 x 31.9 x 18.1")
Weight	Without mount: 7.14 kg (15.74 lb)
	With mount: 11.85 kg (26.12 lb)
Wind loading	1538 N @ 200 km/h (346 lbf @ 125 mph)
Wind survivability	200 km/h (125 mph)

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Product Specification Sheet

Mounting	Pole mount
Frequency	10.3 to 11.7 GHz
Gain	35 dBi
HPOL beamwidth	2.5degrees
VPOL beamwidth	2.5degrees
Maximum VSWR	2:1
Polarization	Default: H/V
	After rotating OMT: +/- 45degrees
Cross-pol isolation	35 dB
Pattern regulatory	ETSI 302 217-4-2, Class 3, FCC Cat B

FAQ

What is included in the Ubiquiti AF-11KIT-H package?

The kit includes an airFiber AF-11 radio, an AF-11G35 35dBi dish antenna, and a single high-band duplexer (AF-11DUPH) pre-installed for SISO mode.

Can I configure the device to run in MIMO mode?

Yes, you can use bonded channels by purchasing an additional AF-11-DUP-H duplexer and connecting it via the N-Type waterproof connectors.

How is this radio powered during installation?

The unit supports Passive PoE using all four pairs (4-pairs) or direct-wiring to a terminal block, operating within a voltage range of 38-56V DC.

Is the airFiber AF-11 suitable for long-distance Point-to-Point bridging?

Yes, it is designed for carrier-class network backhails in the 11GHz licensed band with a maximum range exceeding 300 km and throughput up to 1.2+ Gbps.

What are the environmental operating limits for this system?

The equipment functions reliably between -40degrees C and 55degrees C (-40degrees F to 131degrees F) and can survive wind speeds up to 200 km/h (125 mph).

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page: <https://www.comx-computers.co.za/AF-11KIT-H-Ubiquiti-UIISP-airFiber-11GHz-Dish-Radio-Buy-p-341590.php>

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Product Specification Sheet

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