*air*MAX

900 MHz airMAX 2x2 MIMO PtP/PtMP YAGI Antenna

Model: AMY-9M16

Ultimate in RF Performance

Easily integrates with Rocket M900 (sold separately)

Incredible Range and Speed

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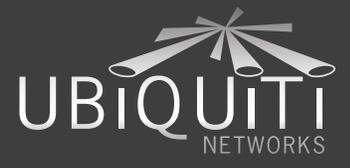
Overview

airMAX YAGI Antenna 2x2 MIMO

The airMAX 900 MHz YAGI is a high-gain array antenna designed to seamlessly integrate with the Rocket M900 radio (sold separately). It features incredible range performance (20+km) and breakthrough speed (90+Mbps real TCP/IP).

The Rocket M900 combines the "brains" in one robust unit; it can be paired with the airMAX 900 MHz YAGI (AMY-9M16) or airMax 900 MHz BaseStation (AMS 900-120-13) antennas. This versatility gives architects unparalleled flexibility and convenience to create powerful 2x2 MIMO PtP bridging or 2x2 MIMO PtMP BaseStation solutions.

Below is an example of how the airMAX YAGI antenna can be deployed:
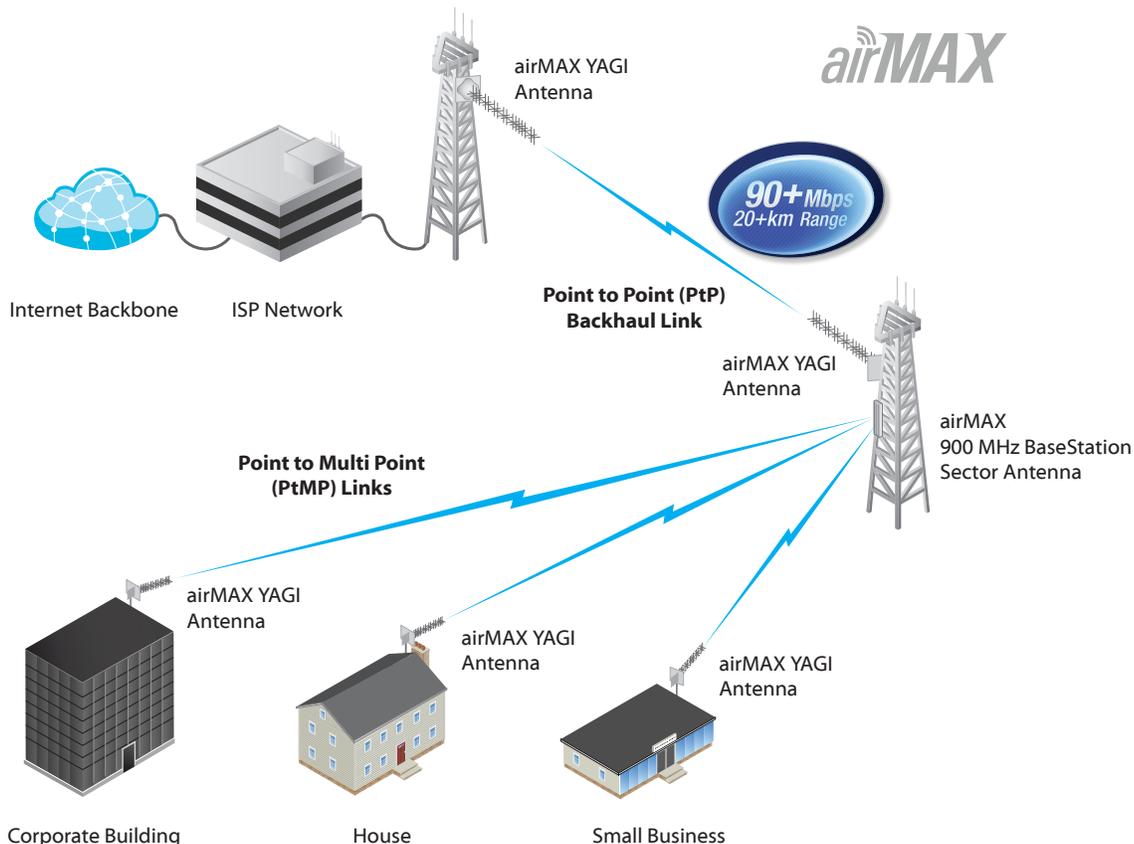
Integrated airMAX Technology

Unlike the standard WiFi protocol, Ubiquiti's Time Division Multiple Access (TDMA) airMAX protocol allows each client to send and receive data using pre-designated time slots scheduled by an intelligent AP controller.

This "time slot" method eliminates hidden node collisions & maximizes air time efficiency. It provides many magnitudes of performance improvements in latency, throughput, and scalability compared to all other outdoor systems in its class.

Intelligent QoS Priority is given to voice/video for seamless access.

Scalability High capacity and scalability.

Long Distance Capable of high speed 20+km links.

Latency Multiple features dramatically reduce noise.

Easy Installation

The Rocket M900 radio and airMAX YAGI antenna have been designed to seamlessly work together.
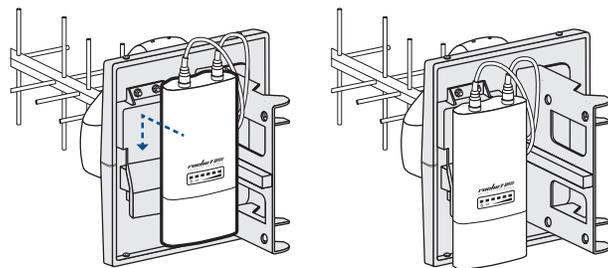
Installing the Rocket M900 radio onto the YAGI antenna requires no special tools, you simply snap it securely into place with the mount built into the antenna.

www.ubnt.com/yagi

Model Details

airMAX YAGI Antenna*

Model: AMY-9M16 (1690 x 295 x 295 mm)

• 902 - 928 MHz

• 16 dBi, Both Polarizations
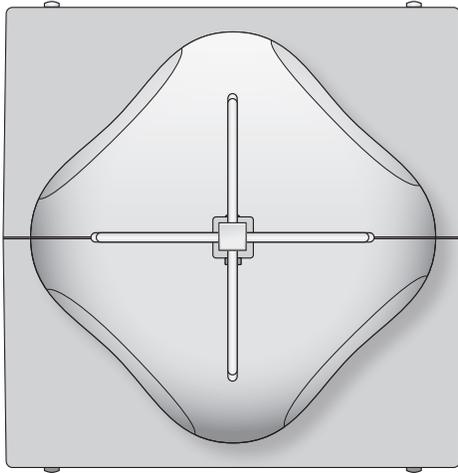
Front View
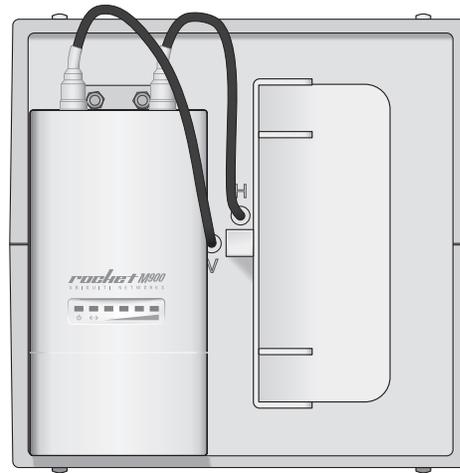
Rear View

Side View

Rocket M900**

Model: M900 (16 x 8 x 3 cm)

• 2x2 MIMO

• Low Latency

• 90+ Mbps Real TCP Throughput
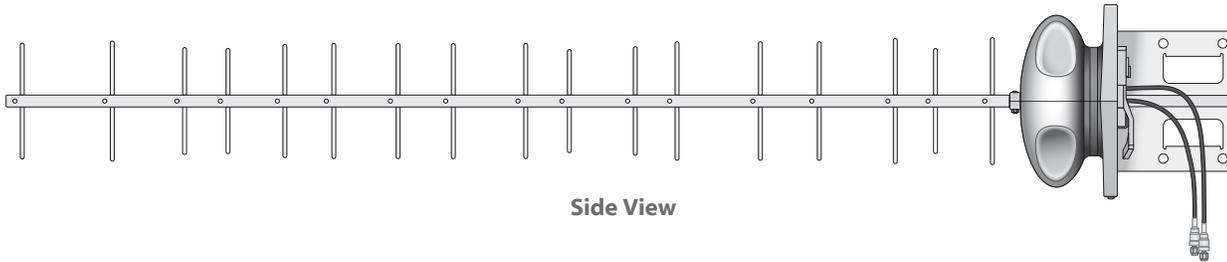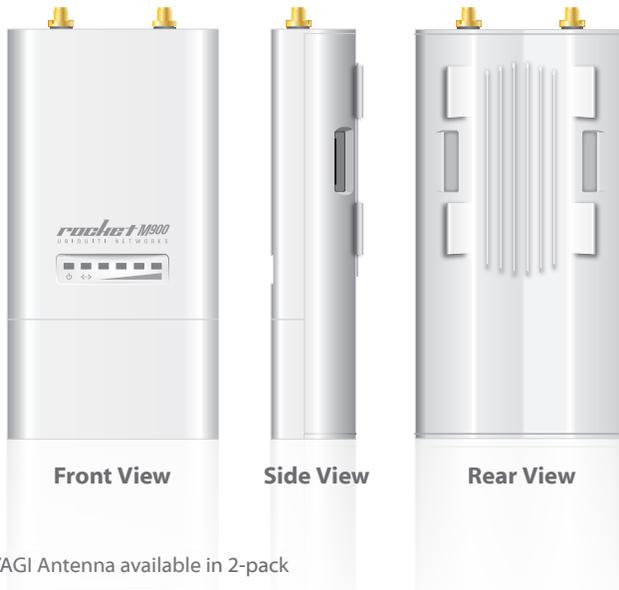
• 20+ km Long Range

Front View   **Side View**   **Rear View**

*airMAX YAGI Antenna available in 2-pack

**Rocket M900 sold separately

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Specifications

Rocket M900 System Information	
Processor Specs	Atheros MIPS 24KC, 400 MHz
Memory Information	64MB SDRAM, 8MB Flash
Networking Interface	(1) 10/100 Ethernet Port

Rocket M900 Regulatory/Compliance Information	
Wireless Approvals	FCC Part 15.247, IC RS210
RoHS Compliance	Yes

Rocket M900 Physical / Electrical / Environmental	
Enclosure Size	16 x 8 x 3 cm
Weight	0.5 kg
Enclosure Characteristics	Outdoor UV Stabilized Plastic
Mounting Kit	Pole Mounting Kit Included
Max. Power Consumption	6.5 Watts
Power Supply	24V, 1A PoE Supply included
Power Method	Passive Power over Ethernet (pairs 4, 5+; 7, 8 return)
Operating Temperature	-30 to 75° C
Operating Humidity	5 to 95% Condensing
Shock and Vibration	ETSI300-019-1.4

airMAX 900 MHz YAGI Antenna Characteristics	
AMY-9M16	
Frequency Range	902 - 928 MHz
Gain	16 dBi, Both Polarizations
HPOL Beamwidth	29 to 34°
VPOL Beamwidth	29 to 34°
F/B Ratio	20 dB
Max VSWR	<1.5:1 Over Band
Dimensions	1690 x 295 x 295 mm
Weight	4.65 kg
Wind Survivability	120 mph
Wind Loading	35 ft-lbs @ 100 mph
Polarization	Dual Linear
Cross-pol Isolation	20 dB
ETSI Specification	EN 302 326 DN2
Mounting	M8 U-Bolt Pole Mounting Kit Included

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TOUGHCable
OUTDOOR CARRIER CLASS SHIELDED

Protect your networks from the most brutal environments with Ubiquiti's industrial-grade shielded Ethernet cable, TOUGHCable.

Increase Performance Dramatically improve your Ethernet link states, speeds, and overall performance with Ubiquiti TOUGHCables.

Extreme Weatherproof TOUGHCables have been built to perform even in the harshest weather and environments.

ESD Damage Protection Protect your networks from devastating electrostatic discharge (ESD) attacks.

Extended Cable Support TOUGHCables have been developed to have increased power handling performance for extended cable run lengths.

Bulletproof your networks

TOUGHCable is currently available in two versions: Level 1 Shielding Protection and Level 2 Shielding Protection.

Level 1 is a Category 5e outdoor carrier-class shielded cable.

Level 2 is a Category 5e outdoor carrier-class shielded cable that features an Anti-Crosstalk Divider, additional shielding and is rated to provide optimal performance on Gigabit Ethernet networks.

Additional Information:

- 24 AWG copper conductor pairs
- 26 AWG integrated ESD drain wire to prevent ESD attacks & damage
- PE outdoor-rated weatherproof jacket
- Multi-layered shielding
- Available in 1000 ft (304.8 m) length

LEVEL 1
SHIELDING PROTECTION

- Conductor
- Insulation
- ESD Drain Wire
- Separation
- Cable Shield
- Rip Cord
- Weatherproof Jacket

LEVEL 2
SHIELDING PROTECTION

- Conductor
- Insulation
- Anti-Crosstalk Divider
- ESD Drain Wire
- Separation
- Cable Shield
- Secondary Cable Shield
- Rip Cord
- Weatherproof Jacket
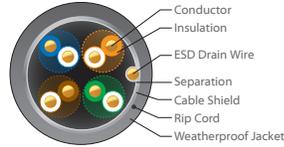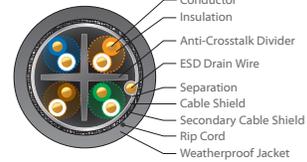
TOUGHCable Connectors

Specifically designed for use with Ubiquiti TOUGHCables and available in 100 pc. bags, TOUGHCable Connectors protect against ESD attacks and Ethernet hardware damage while allowing rapid field deployment without soldering.

ESD attacks are overwhelmingly the leading cause for device failures. The diagram below illustrates the areas vulnerable to ESD attacks in a defenseless network.

By using a grounded Ubiquiti Power over Ethernet (PoE) adapter along with Ubiquiti TOUGHCable and TOUGHCable Connectors, you can effectively protect against ESD attacks.

OUTDOOR

MAIN

Unshielded cable with no ESD Drain

ESD

ESD

POE Adapter with no earth ground

LAN

ESD

Ubiquiti TOUGHCable

Ubiquiti POE Adapter
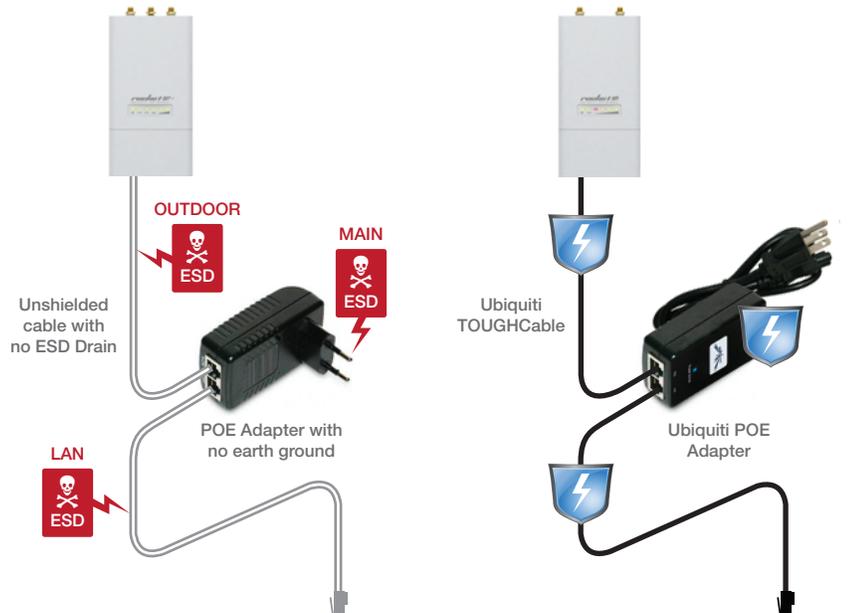
www.ubnt.com/toughcable

*air*MAX 900 MHz YAGI Antenna

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TERMS OF USE: The Ubiquiti radio device must be professionally installed. Shielded Ethernet cable and earth grounding must be used as conditions of product warranty. It is the installers responsibility to follow local country regulations including operation within legal frequency channels, output power, and Dynamic Frequency Selection (DFS) requirements.

For further information, please visit www.ubnt.com.

All specifications in this document are subject to change without notice.   MA/PH100711

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