airMAX™ YAGI Antenna

900 MHz 2x2 MIMO High-Gain Antenna

Model: AMY-9M16

Ultimate in RF Performance

Easily Integrates with Rocket M900 (sold separately)

Incredible Range and Speed

UBIQUITI
NETWORKS

airMAX™ 900 MHz YAGI Antenna

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

The RocketM900 provides the "brains" to a very robust system. It can be paired with the airMAX 900 MHz YAGI (AMY-9M16), or airMAX 900 MHz BaseStation Sector Antenna (AMS 900-120-13). The versatility of a RocketM900 powered system gives architects flexibility to create robust, powerful, 2x2 MIMO solutions.

Below is an example of how the airMAX 900 MHz YAGI Antenna can be deployed:
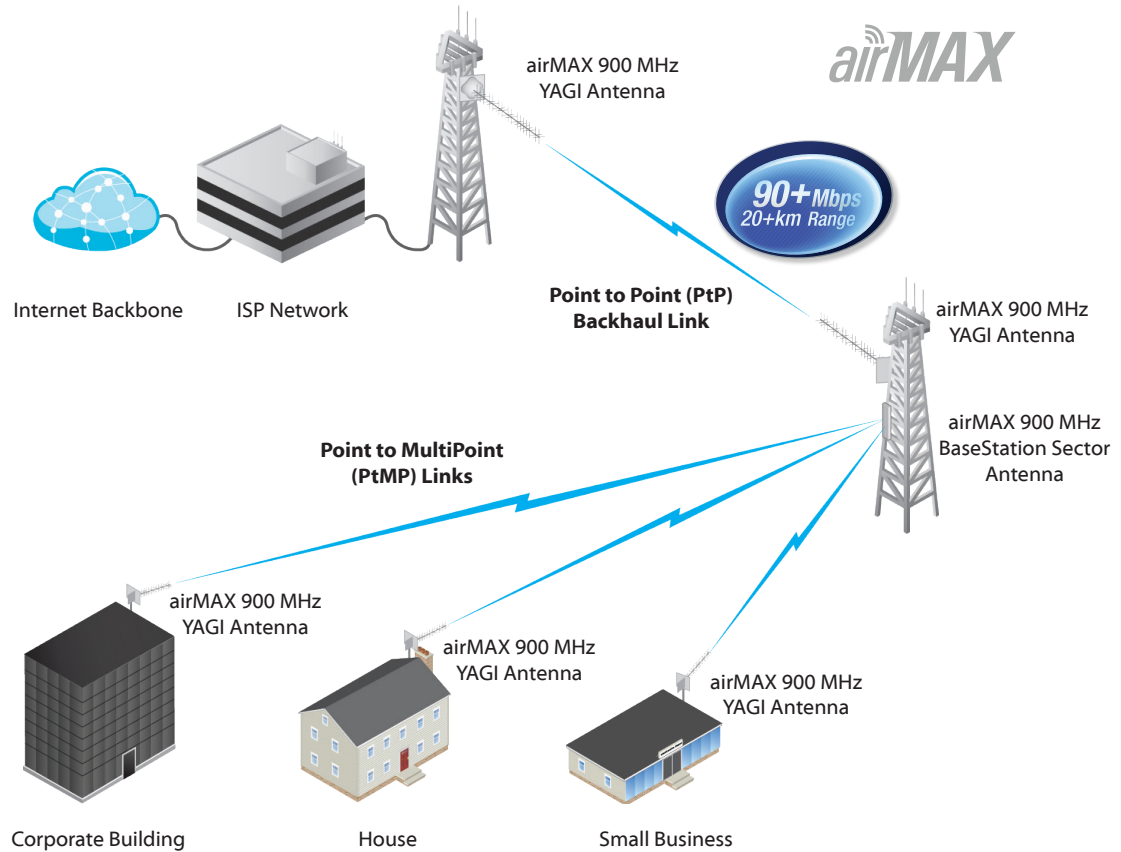

Integrated airMAX Technology

Unlike standard WiFi protocol, airMAX Time Division Multiple Access (TDMA) protocol allows each client to send and receive data using pre-designated time slots managed by an intelligent AP controller. This "time slot" method eliminates hidden node collisions and maximizes airtime efficiency.

Compared to other systems in its class, the airMAX 900 MHz YAGI Antenna delivers superior performance in latency, throughput, and scalability.

• **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.

• **Low Latency** Multiple features dramatically reduce noise.

Easy Installation

The RocketM900 radio and airMAX YAGI antenna have been designed to seamlessly work together.
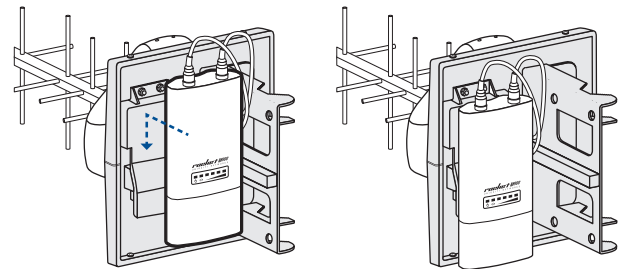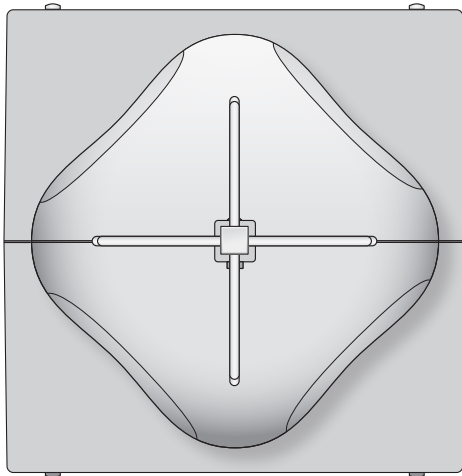

Installing the RocketM900 radio onto the YAGI antenna requires no special tools. You simply snap it securely into place with the Rocket mount built into the antenna.

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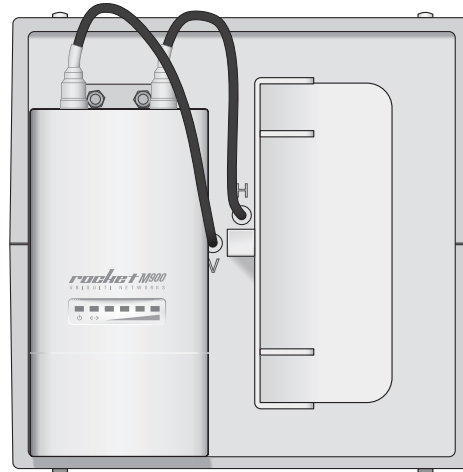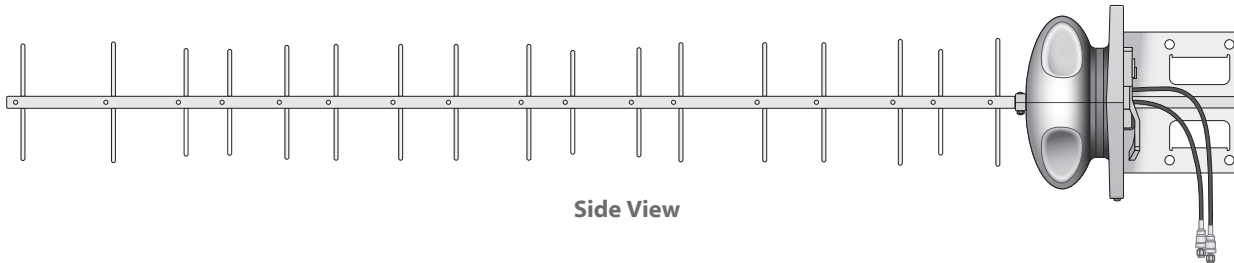
Model Details

airMAX YAGI Antenna*

Model: AMY-9M16

• 902 - 928 MHz

• 16 dBi, Both Polarizations

Front View

Rear View

Side View

RocketM900**

Model: M900

• 2x2 MIMO

• Low Latency

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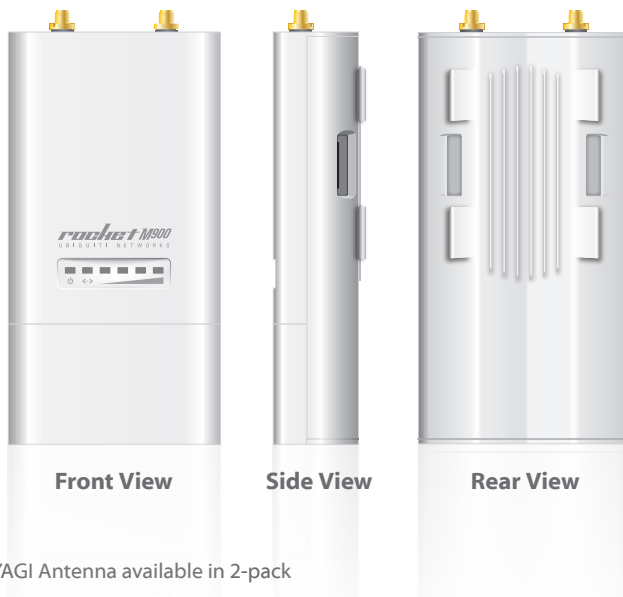
• 20+ km Long Range

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

*airMAX YAGI Antenna available in 2-pack

**RocketM900 sold separately

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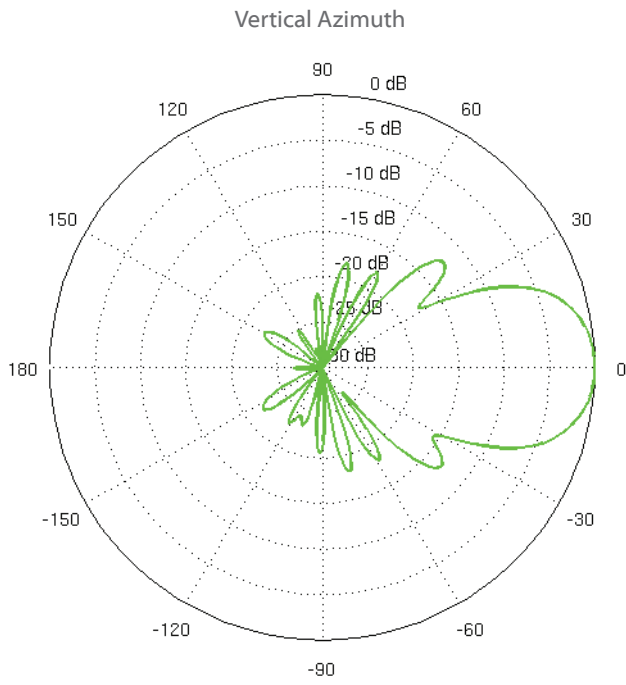
Specifications

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 2 x 83 x 35 mm
Weight	240 g
Enclosure Characteristics	Outdoor UV Stabilized Plastic
Mounting Kit	Pole Mounting Kit Included
Max. Power Consumption	6.5 W
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	1365 x 215 x 218 mm
Weight	2.5 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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airMAX 900 MHz YAGI Antenna Polar Plots

Vertical Azimuth

Vertical Elevation

Horizontal Azimuth

Horizontal Elevation

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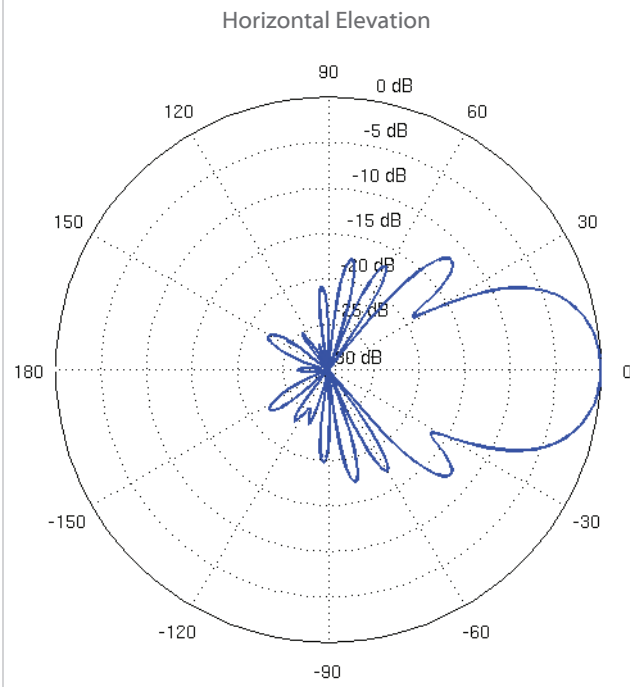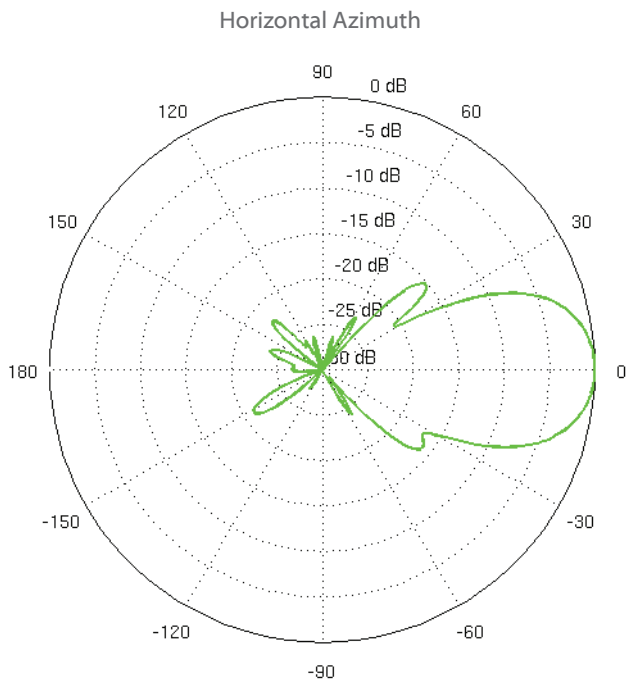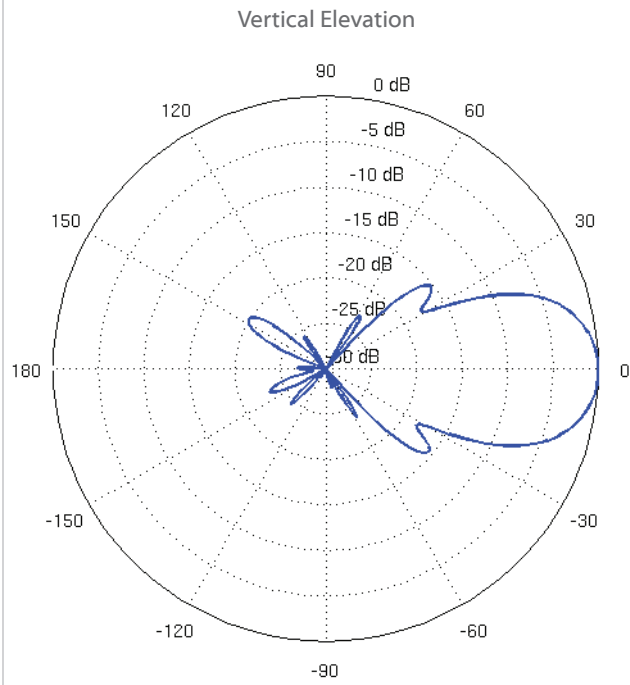
TOUGHCable™

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
Designed for outdoor use, 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 increase power handling performance for extended cable run lengths.

Bulletproof your networks

TOUGHCable is currently available in two versions: PRO Shielding Protection and CARRIER Shielding Protection.

TOUGHCable PRO is a Category 5e, outdoor, carrier-class shielded cable with an integrated ESD drain wire.

TOUGHCable CARRIER is a Category 5e, outdoor, carrier-class shielded cable that features an integrated ESD drain wire, anti-crosstalk divider, and secondary shielding. It 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 and damage
• PE outdoor-rated, weatherproof jacket
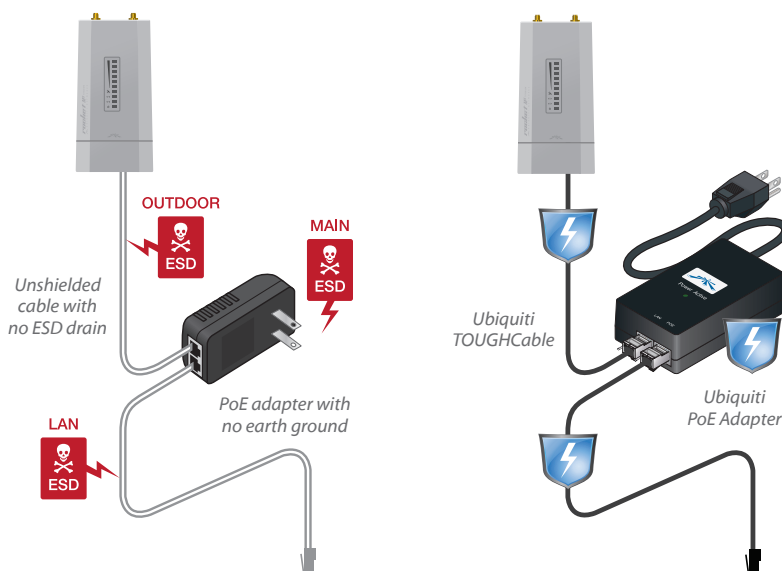• Multi-layered shielding
• Available in lengths of 1000 ft (304.8 m)

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

TERMS OF USE: Ubiquiti radio devices must be professionally installed. Shielded Ethernet cable and earth grounding must be used as conditions of product warranty. TOUGHCable is designed for outdoor installations. It is the installer's responsibility to follow local country regulations, including operation within legal frequency channels, output power, indoor cabling requirements, and Dynamic Frequency Selection (DFS) requirements.

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

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