

WispStation™ **M5**

5 GHz WISP OEM Station

Model: WSM5

Powerful airOS™ and airMAX™ Technologies

Low Cost OEM Platform

Rock Solid Performance

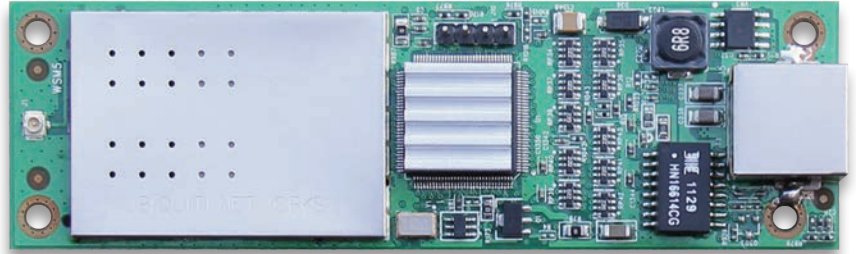


Overview

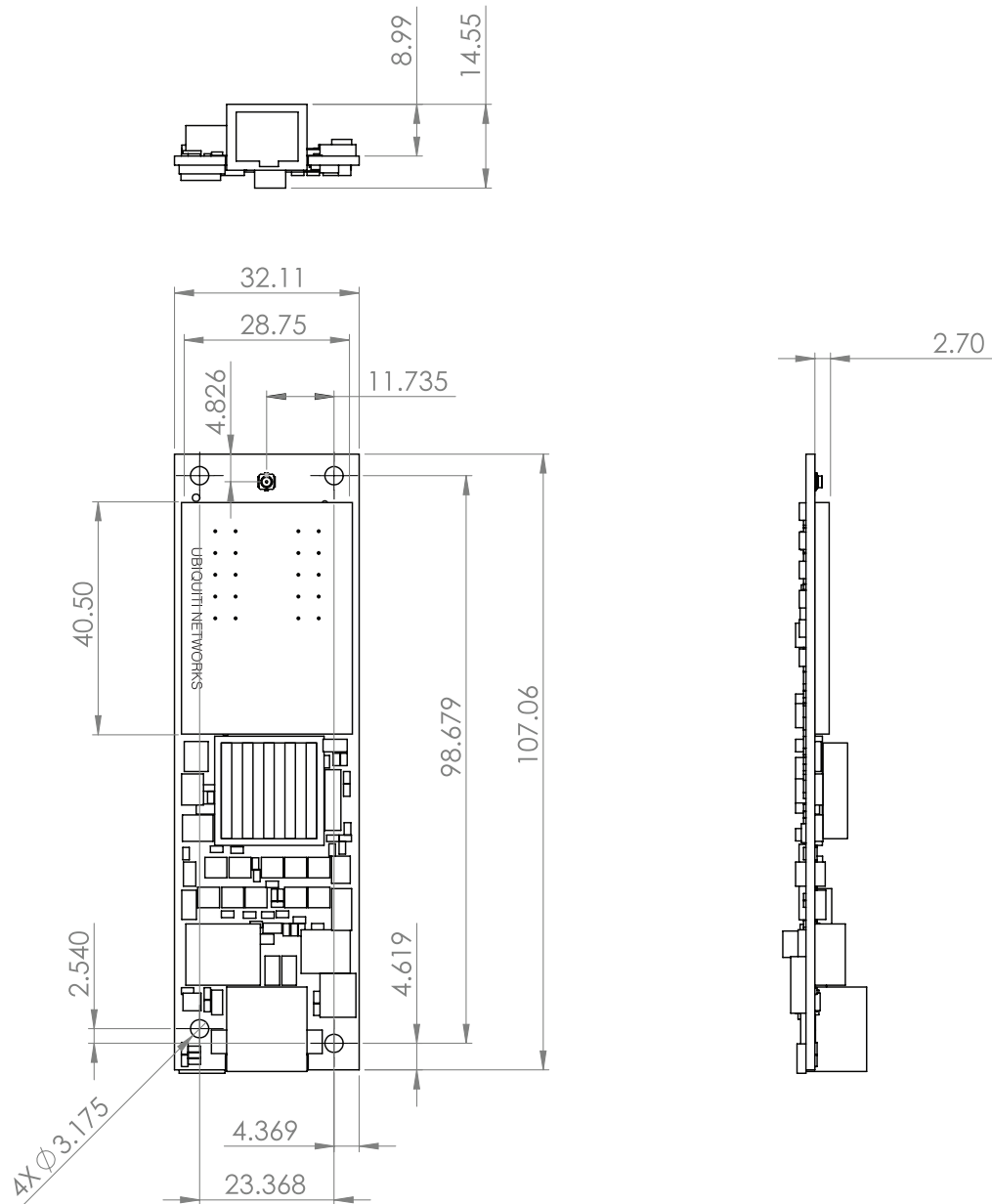
Description

Introducing the WispStation™ M5, a long-range 5 GHz Station designed specifically for the WISP OEM Market. The WISP Station M5 features rock solid performance, full Linux SDK support, and 15 kV ESD Protection at RF and Ethernet Ports.

Combined with Ubiquiti's intuitive airOS™ interface and airMAX™ (TDMA Protocol) technology, the WispStationM5 is a powerful, low-cost WISP OEM platform.



Mechanical Drawings



Specifications

System Information							
Processor Specs			Atheros MIPS 24KC, 400 MHz				
Memory Information			32 MB SDRAM, 8 MB Flash				
Networking Interface			(1) 10/100 Ethernet Port				
Regulatory / Compliance Information							
Wireless Approvals			FCC Part 15.247, IC RS210, CE				
RoHS Compliance			YES				
Radio Operating Frequency 5475 - 5825 MHz*							
TX Power Specifications				RX Power Specifications			
	Data Rate	Avg. TX	Tolerance		Data Rate	Sensitivity	Tolerance
11a	1-24 Mbps	23 dBm	+/-2dB	11a	1-24 Mbps	-97 dBm min.	+/-2dB
	36 Mbps	21 dBm	+/-2dB		36 Mbps	-90 dBm	+/-2dB
	48 Mbps	20 dBm	+/-2dB		48 Mbps	-86 dBm	+/-2dB
	54 Mbps	19 dBm	+/-2dB		54 Mbps	-84 dBm	+/-2dB
11n / airMAX	MCS0	23 dBm	+/-2dB	11n / airMAX	MCS0	-97 dBm	+/-2dB
	MCS1	23 dBm	+/-2dB		MCS1	-96 dBm	+/-2dB
	MCS2	22 dBm	+/-2dB		MCS2	-93 dBm	+/-2dB
	MCS3	21 dBm	+/-2dB		MCS3	-91 dBm	+/-2dB
	MCS4	20 dBm	+/-2dB		MCS4	-87 dBm	+/-2dB
	MCS5	18 dBm	+/-2dB		MCS5	-84 dBm	+/-2dB
	MCS6	17 dBm	+/-2dB		MCS6	-78 dBm	+/-2dB
	MCS7	16 dBm	+/-2dB		MCS7	-75 dBm	+/-2dB
Adjustable Channel Size Support			5 MHz, 10 MHz, 20 MHz, 40 MHz (Turbo)				
Range Performance			50+ km (Outdoor - Antenna Dependent)				
Physical / Electrical / Environmental							
Dimensions			107 x 32 x 15 mm				
Weight			24 g				
Max. Power Consumption			5.0 Watts				
Power Supply			24V, 0.5A PoE Adapter (not included)				
Power Method			Passive Power over Ethernet (pairs 4, 5+; 7, 8 return)				
ESD/EMP Protection			+/- 15 kV at RF and Ethernet Ports				
Operating Temperature			-30 to 75° C				
Operating Humidity			5 to 95% Condensing				
Shock and Vibration			ETSI300-019-1.4				
Software Information							
Modes			Station, Station WDS, AP Bridge				
Services			SNMP, DHCP, NAT				
Utilities			Site Survey with Preferred ESSID, Antenna Alignment Tool, Discovery Utility				
Security			WEP/WPA				
QoS			802.11e / WMM Support				
Statistical Reporting			Ethernet Active, Uptime, Packet Success/Errors				
LED Indicators							
System LEDs			Power, LAN				
Antenna Align / Signal Strength LEDs			Software adjustable to correspond to custom RSSI Levels				

* Only 5725 - 5850 MHz supported in the USA

TOUGH Cable™

OUTDOOR CARRIER CLASS SHIELDED

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

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

Extreme Weatherproof TOUGH Cables 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 TOUGH Cables have been developed to have increased power handling performance for extended cable run lengths.

Bulletproof your networks

TOUGH Cable 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



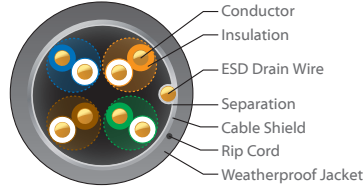
TERMS OF USE: The Ubiquiti radio device must be professionally installed. Shielded Ethernet cable and earth grounding must be used as conditions of product warranty. It is the installer's responsibility to follow local country regulations including operation within legal frequency channels, output power,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

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

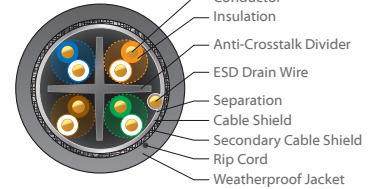
All specifications in this document are subject to change without notice.

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LEVEL 1 SHIELDING PROTECTION



LEVEL 2 SHIELDING PROTECTION



TOUGH Cable Connectors

Specifically designed for use with Ubiquiti TOUGH Cables and available in 100 pc. bags, TOUGH Cable 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 TOUGH Cable and TOUGH Cable Connectors, you can effectively protect against ESD attacks.

