

السيد الدكتور / مجدي عبد العزيز

وكيل أول وزارة المالية رئيس مصلحة الجمارك

تحية طيبة وبعد ، ، ،

في إطار التعاون المستمر والمثمر بين الجهاز القومي لتنظيم الاتصالات ومصلحة الجمارك لتنفيذ أحكام قانون تنظيم الاتصالات رقم ١٠ لسنة ٢٠٠٣ ، وبالإحالة إلي ضبط العديد من أجهزة ربط الشبكات اللاسلكية التي دخلت البلاد بطرق غير مشروعة وتستخدم في تقديم خدمة الإنترنت اللاسلكي بدون الحصول علي ترخيص من الجهاز القومي لتنظيم الاتصالات بالمخالفة للقانون ، الأمر الذي يشكل خطراً بالغا للأمن القومي المصري وبيان الأجهزة كالتالي :

- Ubiquiti Pico Station 2HP.
- Ubiquiti BULLET 2HP.
- Ubiquiti Nano station M2&M5.
- Ubiquiti Nano station Loco M2 &M5.
- Ubiquiti Rocket M2 &M5.
- Ubiquiti WISP Station M5.

ويرجى من سيادتكم التكرم بالإحاطة والتنبيه بعمل اللازم نحو التأكيد على أن تلك الأجهزة هي من أجهزة ومعدات الاتصالات التي يجب عرضها علي الجهاز القومي لتنظيم الاتصالات للبت بشأن الأفراج عنها من عدمه (مرفق كتالوجات المواصفات الفنية) .

وتفضلوا بقبول فائق الاحترام ، ، ،

مهندس / مصطفى عبد الواحد

القائم بأعمال الرئيس التنفيذي
الجهاز القومي لتنظيم الاتصالات

مصلحة الجمارك
قطاع النظم والإجراءات

الإدارة المركزية
للسياسات والإجراءات الجمركية
الإدارة العامة للسياسات والإجراءات
إدارة بحوث التشريعات الرقابية

منشور إستيراد رقابي رقم (٢٩) لسنة ٢٠١٦

بالاطلاع على :

- * قانون تنظيم الاتصالات رقم ١٠/٢٠٠٣ .
- * منشوري إستيراد رقم ٦ و ١٠ لسنة ٢٠٠٩ .
- * منشور إستيراد رقابي ٢٠١٥/٣٢ والتعليمات المعلنة تباعاً في هذا الشأن والمنتبهة بمنشور إستيراد رقابي ٢٠١٦/١٣ .
- * وإحكاما للرقابة الجمركية بشأن تطبيق قانون تنظيم الاتصالات المشار إليه .
- * بناء على كتاب السيد المهندس / القائم بأعمال الرئيس التنفيذي- الجهاز القومي لتنظيم الاتصالات رقم ٤٧٢٢ في ٢٠١٦/٤/٢٨ والوارد للإدارة بتاريخ ٢٠١٦/٥/٥ .

يراعى إتباع ما يلي ، ، ،

- * يطبق كتاب السيد المهندس / القائم بأعمال الرئيس التنفيذي- الجهاز القومي لتنظيم الاتصالات رقم ٤٧٢٢ في ٢٠١٦/٤/٢٨ والموضح بعاليه وخلفه بكل دقة .

للعلم به ومراعاة تنفيذه بكل دقة

رئيس الإدارة المركزية

للسياسات والإجراءات الجمركية

مدير عام الإدارة العامة

للسياسات والإجراءات الجمركية

سادة مصطفى
ابوشادي

إسكندرية في : ٢٨ رجب ١٤٣٧ هـ
الموافق : ٥ مايو ٢٠١٦

السيد الأستاذ /

إ. السيد ماجد
إ. نبوت شرباع
ع. الفائزة

التاريخ: ٢٠١٦/٤/٢٦

٢٠١٦

السيد الدكتور/ مجدي عبد العزيز

وكيل أول وزارة المالية رئيس مصلحة الجمارك

تحية طيبة وبعد ، ، ،

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وتفضلوا بقبول فائق الاحترام ، ، ،

إ. السيد
ع. نبوت شرباع
٤/٥/١٦

دار ر.م. س.ب. + مرزبان مهندس / مصطفى عبد الواحد

القائم بأعمال الرئيس التنفيذي
الجهاز القومي لتنظيم الاتصالات

٦٧٤
٢٠١٦/٥/٥

م. نبوت شرباع
٤٧٤٤
٢٠١٦/٥/٥

ع. الفائزة
١٦/٥/١٦

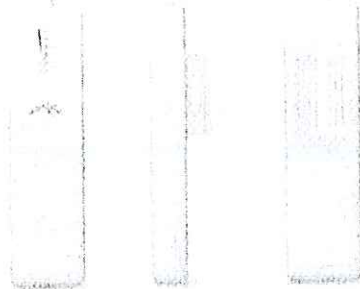
ع. الفائزة
٥٤٨
٢٠١٦/٥/٥


ع. الفائزة
٩٦
٢٠١٦/٥/٥

PicoStation2HP

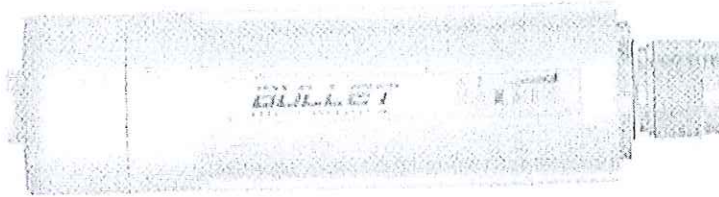
Limitless Applications
1000mW Output Power


Pico2HP DATASHEET



SYSTEM INFORMATION			
Processor Specs	Atheros MIPS 4KC, 180MHz		
Memory Information	32MB SDRAM, 8MB Flash		
Networking Interface	1 X 10/100 BASE-TX (Cat. 5, RJ-45) Ethernet Interface		
REGULATORY / COMPLIANCE INFORMATION			
Wireless Approvals	FCC Part 15.247, IC RS210		
RoHS Compliance	YES		
RADIO OPERATING FREQUENCY 2412-2462 MHz			
TX SPECIFICATIONS		RX SPECIFICATIONS	
	DataRate	TX Power	Tolerance
802.11b	1Mbps	29 dBm	+/- 1dB
	2Mbps	29 dBm	+/- 1dB
	5.5Mbps	29 dBm	+/- 1dB
	11Mbps	29 dBm	+/- 1dB
802.11g OFDM	6Mbps	28 dBm	+/- 1dB
	9Mbps	28 dBm	+/- 1dB
	12Mbps	28 dBm	+/- 1dB
	18Mbps	28 dBm	+/- 1dB
	24Mbps	28 dBm	+/- 1dB
	36Mbps	26 dBm	+/- 1dB
	48Mbps	24 dBm	+/- 1dB
	54Mbps	23 dBm	+/- 1dB
	DataRate	Sensitivity	Tolerance
802.11b	1Mbps	-97 dBm	+/- 1dB
	2Mbps	-96 dBm	+/- 1dB
	5.5Mbps	-95 dBm	+/- 1dB
	11Mbps	-92 dBm	+/- 1dB
802.11g OFDM	6Mbps	-94 dBm	+/- 1dB
	9Mbps	-93 dBm	+/- 1dB
	12Mbps	-91 dBm	+/- 1dB
	18Mbps	-90 dBm	+/- 1dB
	24Mbps	-86 dBm	+/- 1dB
	36Mbps	-83 dBm	+/- 1dB
	48Mbps	-77 dBm	+/- 1dB
	54Mbps	-74 dBm	+/- 1dB
ADJUSTABLE CHANNEL SIZE SUPPORT			
5MHz	10MHz	20MHz	40MHz
ANTENNA & RANGE PERFORMANCE			
RP-SMA Antenna Included	Outdoor Omni-directional, 6dBi		
Indoor/Outdoor Range	Over 200m / 500m		
PHYSICAL / ELECTRICAL / ENVIRONMENTAL			
Enclosure Size	13.6 cm. length x 2.0 cm. height x 3.9cm. width		
Weight	0.10kg		
Enclosure Characteristics	Outdoor UV Stabilized Plastic		
Max Power Consumption	8 Watts		
Power Rating	12V, 1A (12 Watts). Supply and injector included		
Power Method	Passive Power over Ethernet (pairs 4,5+; 7,8 return)		
Operating Temperature	-20C to +70C		
Operating Humidity	5 to 95% Condensing		
Shock and Vibration	ETSI300-019-1.4		
SOFTWARE			
 AirOS TM by Ubiquiti Networks			
visit www.ubnt.com/airos			

Zero Variable Outdoor Wireless Deployment



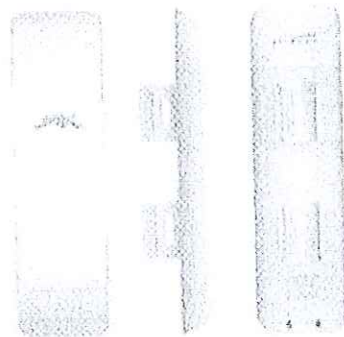
SYSTEM INFORMATION							
Processor Specs	Atheros MIPS 4KC, 180MHz						
Memory Information	16MB SDRAM, 4MB Flash						
Networking Interface	1 X 10/100 BASE-TX (Cat. 5, RJ-45) Ethernet Interface						
REGULATORY / COMPLIANCE INFORMATION							
Wireless Approvals	FCC Part 15.247, IC R5210						
RoHS Compliance	YES						
RADIO OPERATING FREQUENCY 2412-2462 MHz							
TX SPECIFICATIONS			RX SPECIFICATIONS				
802.11b	DataRate	TX Power	Tolerance	802.11b	DataRate	Sensitivity	Tolerance
	1Mbps	29 dBm	+/-1dB		1Mbps	-97 dBm	+/-1dB
	2Mbps	29 dBm	+/-1dB		2Mbps	-96 dBm	+/-1dB
	5.5Mbps	29 dBm	+/-1dB		5.5Mbps	-95 dBm	+/-1dB
	11Mbps	29 dBm	+/-1dB		11Mbps	-92 dBm	+/-1dB
802.11g OFDM	6Mbps	28 dBm	+/-1dB	802.11g OFDM	6Mbps	-94 dBm	+/-1dB
	9Mbps	28 dBm	+/-1dB		9Mbps	-93 dBm	+/-1dB
	12Mbps	28 dBm	+/-1dB		12Mbps	-91 dBm	+/-1dB
	18Mbps	28 dBm	+/-1dB		18Mbps	-90 dBm	+/-1dB
	24Mbps	28 dBm	+/-1dB		24Mbps	-86 dBm	+/-1dB
	36Mbps	26 dBm	+/-1dB		36Mbps	-83 dBm	+/-1dB
	48Mbps	24 dBm	+/-1dB		48Mbps	-77 dBm	+/-1dB
	54Mbps	23 dBm	+/-1dB		54Mbps	-74 dBm	+/-1dB
ADJUSTABLE CHANNEL SIZE SUPPORT							
5MHz	10MHz	20MHz	40MHz				
RANGE PERFORMANCE							
Outdoor (Antenna Dependent):	Over 50km						
PHYSICAL / ELECTRICAL / ENVIRONMENTAL							
RF Connector	Integrated N-type Male Jack (connects directly to antenna)						
Enclosure Size	15.2cm. length x 3.1 cm. height x 3.7cm. width						
Weight	0.18kg						
Enclosure Characteristics	Outdoor UV Stabilized Plastic						
Max Power Consumption	8 Watts						
Power Rating	Up to 24V						
Power Method	Passive Power over Ethernet (pairs 4,5+; 7,8 return)						
Operating Temperature	-20C to +70C						
Operating Humidity	5 to 95% Condensing						
Shock and Vibration	ETSI300-019-1.4						
SOFTWARE							
			visit www.ubnt.com/airos				



M2 + M5



NanoSta on M2 & M5



NSM2, NSM5

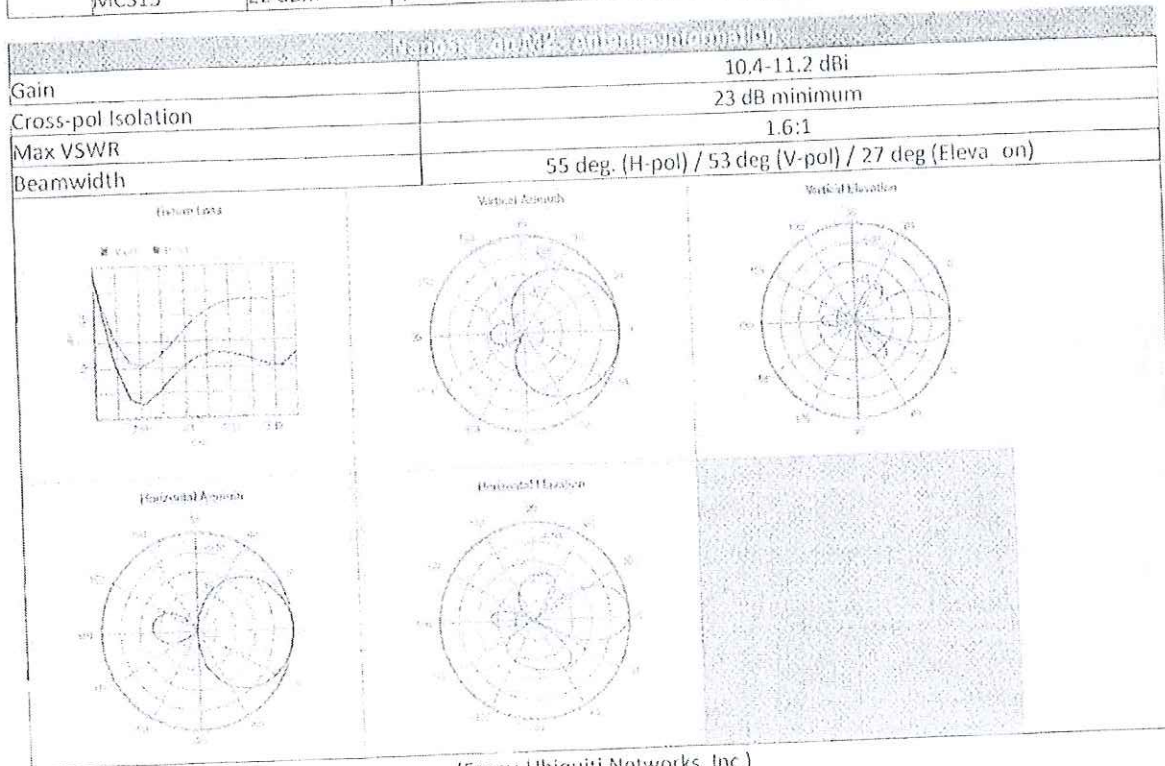
PRODUCT SPECIFICATIONS SUMMARY

System Information	
Processor Specs	Atheros MIPS 24KC, 400MHz
Memory Information	32MB SDRAM, 8MB Flash
Networking Interface	2 X 10/100 BASE-TX (Cat. 5, RJ-45) Ethernet
Regulation / Compliance Information	
Wireless Approvals	FCC Part 15.247, IC RS210, CE
RoHS Compliance	Yes
Physical / Electrical / Environmental / Antenna	
Enclosure Characteristics	Outdoor UV Stabilized Plastic
Mounting Kit	Pole Mounting Kit included
Power Method	Passive Power over Ethernet (pairs 4, 5+; 7, 8 return)
Operating Temperature	-30C to 75C
Operating Humidity	5 to 95% Condensing
Shock and Vibration	ETSI300-019-1.4
Dimensions	294x31x80 mm
Weight	0.4 kg
Max Power Consumption	8 Watts
Antenna Gain	11 dBi (M2) 16 dBi (M5)
Power Supply (included)	24V, 0.5A POE
Polarization	Dual Linear
Radio Frequency (MHz)	5470-5825

SPECIFICATIONS (CONT.) - NSM2

OUTPUT POWER: 28 dBm			
2.4 GHz TX POWER SPECIFICATIONS			
	DataRate	Avg. TX	Tolerance
11b/g	1-24 Mbps	28 dBm	+/- 2 dB
	36 Mbps	26 dBm	+/- 2 dB
	48 Mbps	25 dBm	+/- 2 dB
	54 Mbps	24 dBm	+/- 2 dB
11n	MCS0	28 dBm	+/- 2 dB
	MCS1	28 dBm	+/- 2 dB
	MCS2	28 dBm	+/- 2 dB
	MCS3	28 dBm	+/- 2 dB
	MCS4	27 dBm	+/- 2 dB
	MCS5	25 dBm	+/- 2 dB
	MCS6	23 dBm	+/- 2 dB
	MCS7	22 dBm	+/- 2 dB
	MCS8	28 dBm	+/- 2 dB
	MCS9	28 dBm	+/- 2 dB
	MCS10	28 dBm	+/- 2 dB
	MCS11	28 dBm	+/- 2 dB
	MCS12	27 dBm	+/- 2 dB
	MCS13	25 dBm	+/- 2 dB
	MCS14	23 dBm	+/- 2 dB
MCS15	22 dBm	+/- 2 dB	

2.4 GHz RX POWER SPECIFICATIONS			
	DataRate	Avg. TX	Tolerance
11b/g	1-24 Mbps	-97 dBm min	+/- 2 dB
	36 Mbps	-80 dBm	+/- 2 dB
	48 Mbps	-77 dBm	+/- 2 dB
	54 Mbps	-75 dBm	+/- 2 dB
11n	MCS0	-96 dBm	+/- 2 dB
	MCS1	-95 dBm	+/- 2 dB
	MCS2	-92 dBm	+/- 2 dB
	MCS3	90 dBm	+/- 2 dB
	MCS4	86 dBm	+/- 2 dB
	MCS5	83 dBm	+/- 2 dB
	MCS6	77 dBm	+/- 2 dB
	MCS7	74 dBm	+/- 2 dB
	MCS8	95 dBm	+/- 2 dB
	MCS9	93 dBm	+/- 2 dB
	MCS10	90 dBm	+/- 2 dB
	MCS11	87 dBm	+/- 2 dB
	MCS12	84 dBm	+/- 2 dB
	MCS13	79 dBm	+/- 2 dB
	MCS14	78 dBm	+/- 2 dB
MCS15	75 dBm	+/- 2 dB	



(From: Ubiquiti Networks, Inc.)



SPECIFICATIONS (CONT.) – NSM5

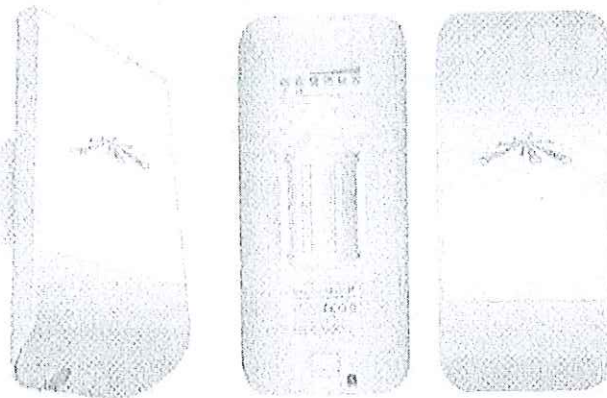
OUTPUT POWER: 27 dBm							
5 GHz TX POWER SPECIFICATIONS				5 GHz RX POWER SPECIFICATIONS			
	DataRate	Avg. TX	Tolerance		DataRate	Avg. TX	Tolerance
11b/g	6-24 Mbps	27 dBm	+/- 2 dB	11b/g	6-24 Mbps	94 dBm min	+/- 2 dB
	36 Mbps	25 dBm	+/- 2 dB		36 Mbps	80 dBm	+/- 2 dB
	48 Mbps	23 dBm	+/- 2 dB		48 Mbps	77 dBm	+/- 2 dB
	54 Mbps	22 dBm	+/- 2 dB		54 Mbps	75 dBm	+/- 2 dB
11n	MCS0	27 dBm	+/- 2 dB	11n	MCS0	96 dBm	+/- 2 dB
	MCS1	27 dBm	+/- 2 dB		MCS1	95 dBm	+/- 2 dB
	MCS2	27 dBm	+/- 2 dB		MCS2	92 dBm	+/- 2 dB
	MCS3	27 dBm	+/- 2 dB		MCS3	90 dBm	+/- 2 dB
	MCS4	26 dBm	+/- 2 dB		MCS4	86 dBm	+/- 2 dB
	MCS5	24 dBm	+/- 2 dB		MCS5	83 dBm	+/- 2 dB
	MCS6	22 dBm	+/- 2 dB		MCS6	77 dBm	+/- 2 dB
	MCS7	21 dBm	+/- 2 dB		MCS7	74 dBm	+/- 2 dB
	MCS8	27 dBm	+/- 2 dB		MCS8	95 dBm	+/- 2 dB
	MCS9	27 dBm	+/- 2 dB		MCS9	93 dBm	+/- 2 dB
	MCS10	27 dBm	+/- 2 dB		MCS10	90 dBm	+/- 2 dB
	MCS11	27 dBm	+/- 2 dB		MCS11	87 dBm	+/- 2 dB
	MCS12	26 dBm	+/- 2 dB		MCS12	84 dBm	+/- 2 dB
	MCS13	24 dBm	+/- 2 dB		MCS13	79 dBm	+/- 2 dB
	MCS14	22 dBm	+/- 2 dB		MCS14	78 dBm	+/- 2 dB
MCS15	21 dBm	+/- 2 dB	MCS15	75 dBm	+/- 2 dB		

Gain	14.6 - 16.1 dBi	
Cross-pol Isolation	22 dB minimum	
Max VSWR	1.6:1	
Beamwidth	43 deg. (H-pol) / 41 deg (V-pol) / 15 deg (Elevation)	

(From: Ubiquiti Networks, Inc.)

NanoStation Loco M2 Compact and cost-effective AirMax 2GHz CPE

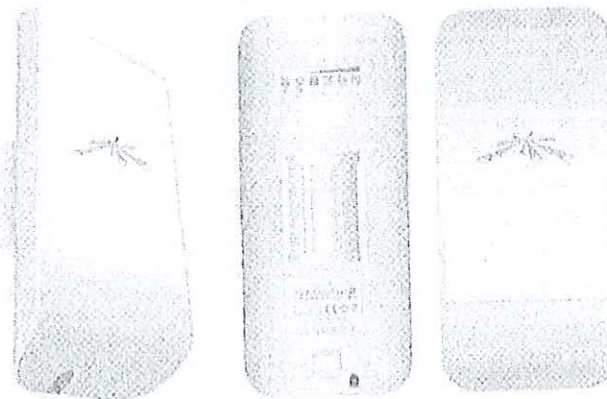
airMAX
MIMO TDMA Protocol



SYSTEM INFORMATION							
Processor Specs	Atheros MIPS 24KC, 400MHz						
Memory Information	32MB SDRAM, 8MB Flash						
Networking Interface	1 X 10/100 BASE-TX (Cat. 5, RJ-45) Ethernet Interface						
REGULATORY / COMPLIANCE INFORMATION							
Wireless Approvals	FCC Part 15.247, IC RS210, CE						
RoHS Compliance	YES						
OPERATING FREQUENCY 2412-2462MHz							
2GHz TX POWER SPECIFICATIONS			2GHz RX SPECIFICATIONS				
	DataRate	Avg. TX	Tolerance		DataRate	Sensitivity	Tolerance
11b/g	1-24Mbps	23 dBm	+/-2dB	11b/g	24Mbps	-83 dBm	+/-2dB
	36Mbps	21 dBm	+/-2dB		36Mbps	-80 dBm	+/-2dB
	48Mbps	19 dBm	+/-2dB		48Mbps	-77 dBm	+/-2dB
	54Mbps	18 dBm	+/-2dB		54Mbps	-75 dBm	+/-2dB
11n / AirMax	MCS0	23 dBm	+/-2dB	11n / AirMax	MCS0	-96 dBm	+/-2dB
	MCS1	23 dBm	+/-2dB		MCS1	-95 dBm	+/-2dB
	MCS2	23 dBm	+/-2dB		MCS2	-92 dBm	+/-2dB
	MCS3	23 dBm	+/-2dB		MCS3	-90 dBm	+/-2dB
	MCS4	22 dBm	+/-2dB		MCS4	-86 dBm	+/-2dB
	MCS5	20 dBm	+/-2dB		MCS5	-83 dBm	+/-2dB
	MCS6	18 dBm	+/-2dB		MCS6	-77 dBm	+/-2dB
	MCS7	17 dBm	+/-2dB		MCS7	-74 dBm	+/-2dB
	MCS8	23 dBm	+/-2dB		MCS8	-95 dBm	+/-2dB
	MCS9	23 dBm	+/-2dB		MCS9	-93 dBm	+/-2dB
	MCS10	23 dBm	+/-2dB		MCS10	-90 dBm	+/-2dB
	MCS11	23 dBm	+/-2dB		MCS11	-87 dBm	+/-2dB
	MCS12	22 dBm	+/-2dB		MCS12	-84 dBm	+/-2dB
	MCS13	20 dBm	+/-2dB		MCS13	-79 dBm	+/-2dB
	MCS14	18 dBm	+/-2dB		MCS14	-78 dBm	+/-2dB
MCS15	17 dBm	+/-2dB	MCS15	-75 dBm	+/-2dB		
PHYSICAL / ELECTRICAL / ENVIRONMENTAL							
Enclosure Size	163 x 31 x 80 mm						
Weight	0.18kg						
Enclosure Characteristics	Outdoor UV Stabilized Plastic						
Mounting Kit	Pole Mounting Kit included						
Max Power Consumption	5.5 Watts						
Power Supply	24V, 0.5A surge protection integrated POE adapter included						
Power Method	Passive Power over Ethernet (pairs 4,5+ ; 7,8 return)						
Operating Temperature	-30C to +80C						
Operating Humidity	5 to 95% Condensing						
Shock and Vibration	ETSI300-019-1.4						
INTEGRATED 2x2 MIMO ANTENNA							
Frequency Range	2.3-2.5 GHz	Max VSWR	1.4:1				
Gain	8 dBi	Horizontal Beamwidth	60 deg.				
Polarization	Dual Linear	Vertical Beamwidth	60 deg.				
Cross-polar Isolation	20dB minimum	Elevation Beamwidth	60 deg.				

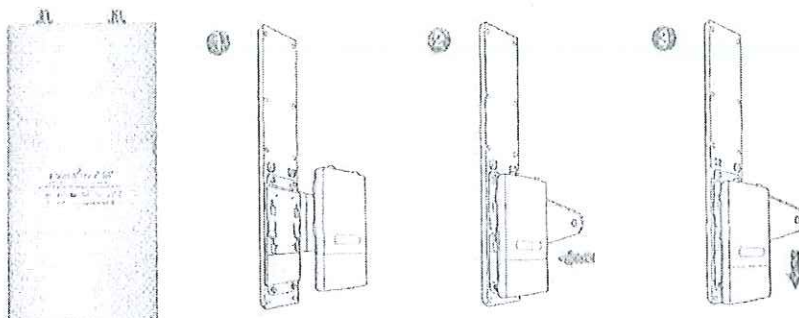
NanoStation Loco M5 Compact and cost-effective AirMax 5GHz CPE

airMAX
MIMO TDMA Protocol



SYSTEM INFORMATION				
Processor Specs	Altheros MIPS 24KC, 400MHz			
Memory Information	32MB SDRAM, 8MB Flash			
Networking Interface	1 X 10/100 BASE-TX (Cat. 5, RJ-45) Ethernet Interface			
REGULATORY / COMPLIANCE INFORMATION				
Wireless Approvals	FCC Part 15.247, IC RS210, CE			
RoHS Compliance	YES			
OPERATING FREQUENCY: 5470MHz-5825MHz				
5GHz TX POWER SPECIFICATIONS			5GHz RX SPECIFICATIONS	
	DataRate	Avg. TX	Tolerance	
11a	1-24Mbps	23 dBm	+/-2dB	11a
	36Mbps	21 dBm	+/-2dB	
	48Mbps	19 dBm	+/-2dB	
	54Mbps	18 dBm	+/-2dB	
5GHz 11n / AirMax	MCS0	23 dBm	+/-2dB	5GHz 11n / AirMax
	MCS1	23 dBm	+/-2dB	
	MCS2	23 dBm	+/-2dB	
	MCS3	23 dBm	+/-2dB	
	MCS4	22 dBm	+/-2dB	
	MCS5	20 dBm	+/-2dB	
	MCS6	18 dBm	+/-2dB	
	MCS7	17 dBm	+/-2dB	
	MCS8	23 dBm	+/-2dB	
	MCS9	23 dBm	+/-2dB	
	MCS10	23 dBm	+/-2dB	
	MCS11	23 dBm	+/-2dB	
	MCS12	22 dBm	+/-2dB	
	MCS13	20 dBm	+/-2dB	
	MCS14	18 dBm	+/-2dB	
MCS15	17 dBm	+/-2dB		
	DataRate	Sensitivity	Tolerance	
	24Mbps	-83 dBm	+/-2dB	
	36Mbps	-80 dBm	+/-2dB	
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	54Mbps	-75 dBm	+/-2dB	
	MCS0	-96 dBm	+/-2dB	
	MCS1	-95 dBm	+/-2dB	
	MCS2	-92 dBm	+/-2dB	
	MCS3	-90 dBm	+/-2dB	
	MCS4	-86 dBm	+/-2dB	
	MCS5	-83 dBm	+/-2dB	
	MCS6	-77 dBm	+/-2dB	
	MCS7	-74 dBm	+/-2dB	
	MCS8	-95 dBm	+/-2dB	
	MCS9	-93 dBm	+/-2dB	
	MCS10	-90 dBm	+/-2dB	
	MCS11	-87 dBm	+/-2dB	
	MCS12	-84 dBm	+/-2dB	
	MCS13	-79 dBm	+/-2dB	
	MCS14	-78 dBm	+/-2dB	
	MCS15	-75 dBm	+/-2dB	
PHYSICAL / ELECTRICAL / ENVIRONMENTAL				
Enclosure Size	163 x 31 x 80			
Weight	0.18kg			
Enclosure Characteristics	Outdoor UV Stabilized Plastic			
Mounting Kit	Pole Mounting Kit included			
Max Power Consumption	5.5 Watts			
Power Supply	24V, 0.5A surge protection integrated POE adapter included			
Power Method	Passive Power over Ethernet (pairs 4,5+; 7,8 return)			
Operating Temperature	-30C to +80C			
Operating Humidity	5 to 95% Condensing			
Shock and Vibration	ETSI300-019-1.4			
INTEGRATED 2x2 MIMO ANTENNA				
Frequency Range	4.9-6.0 GHz	Max VSWR	1.4:1	
Gain	13 dBi	H-pol Beamwidth	45 deg.	
Polarization	Dual Linear	V-pol Beamwidth	45 deg.	
Cross-polarization	20dB minimum	Elevation Beamwidth	45 deg.	

ROCKET M5 5GHz Hi Power 2x2 MIMO AirMax TDMA Base Station

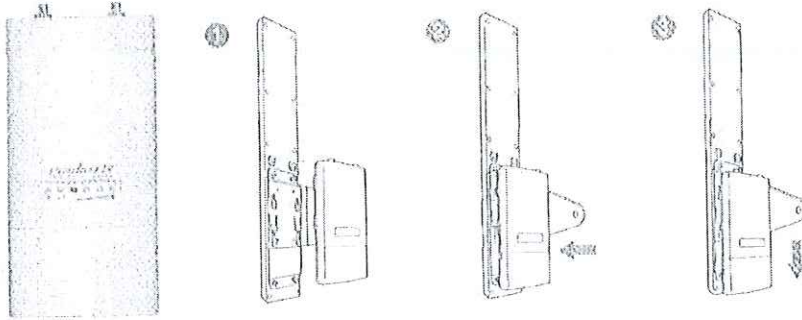


airMAX
MIMO TDMA Protocol

COMPATIBLE ANTENNAS
AirMax Sector 5G-17-90
AirMax Sector 5G-16-120
AirMax Sector 5G-20-90
AirMax Sector 5G-19-120
Rocket Dish 5G-30

SYSTEM INFORMATION			
Processor Specs	Atheros MIPS 24KC, 400MHz		
Memory Information	64MB SDRAM, 8MB Flash		
Networking Interface	1 X 10/100 BASE-TX (Cat. 5, RJ-45) Ethernet Interface		
REGULATORY / COMPLIANCE INFORMATION			
Wireless Approvals	FCC Part 15.247, IC RS210, CE		
RoHS Compliance	YES		
OPERATING FREQUENCY 5470MHz-5825MHz			
5GHz TX POWER SPECIFICATIONS			
11a	DataRate	Avg. TX	Tolerance
	6-24Mbps	27 dBm	+/-2dB
	36Mbps	25 dBm	+/-2dB
	48Mbps	23 dBm	+/-2dB
	54Mbps	22 dBm	+/-2dB
5GHz 11n	MCS0	27 dBm	+/-2dB
	MCS1	27 dBm	+/-2dB
	MCS2	27 dBm	+/-2dB
	MCS3	27 dBm	+/-2dB
	MCS4	26 dBm	+/-2dB
	MCS5	24 dBm	+/-2dB
	MCS6	22 dBm	+/-2dB
	MCS7	21 dBm	+/-2dB
	MCS8	27 dBm	+/-2dB
	MCS9	27 dBm	+/-2dB
	MCS10	27 dBm	+/-2dB
	MCS11	27 dBm	+/-2dB
	MCS12	26 dBm	+/-2dB
	MCS13	24 dBm	+/-2dB
	MCS14	22 dBm	+/-2dB
MCS15	21 dBm	+/-2dB	
5GHz RX SPECIFICATIONS			
11a	DataRate	Sensitivity	Tolerance
	6-24Mbps	-94 dBm min	+/-2dB
	36Mbps	-80 dBm	+/-2dB
	48Mbps	-77 dBm	+/-2dB
	54Mbps	-75 dBm	+/-2dB
5GHz 11n	MCS0	-96 dBm	+/-2dB
	MCS1	-95 dBm	+/-2dB
	MCS2	-92 dBm	+/-2dB
	MCS3	-90 dBm	+/-2dB
	MCS4	-86 dBm	+/-2dB
	MCS5	-83 dBm	+/-2dB
	MCS6	-77 dBm	+/-2dB
	MCS7	-74 dBm	+/-2dB
	MCS8	-95 dBm	+/-2dB
	MCS9	-93 dBm	+/-2dB
	MCS10	-90 dBm	+/-2dB
	MCS11	-87 dBm	+/-2dB
	MCS12	-84 dBm	+/-2dB
	MCS13	-79 dBm	+/-2dB
	MCS14	-78 dBm	+/-2dB
MCS15	-75 dBm	+/-2dB	
PHYSICAL / ELECTRICAL / ENVIRONMENTAL			
Enclosure Size	16cm length x 8cm width x 3cm height		
Weight	0.5 kg		
RF Connector	2x RPSMA (Waterproof)		
Enclosure Characteristics	Outdoor UV Stabilized Plastic		
Mounting Kit	Pole Mounting Kit included		
Max Power Consumption	8 Watts		
Power Supply	24V, 1A POE Supply Included		
Power Method	Passive Power over Ethernet (pairs 4,5+; 7,8 return)		
Operating Temperature	-30C to 75C		
Operating Humidity	5 to 95% Condensing		
Shock and Vibration	ETSI300-019-1.4		
EOL: 1/17/2017. AirMax Support Only available until 8/2/16 support expected with AirOS 7.5 Release by end of year.			

ROCKET 240 2.4GHz Hi Power 2x2 MIMO AirMax TDMA Base Station



airMAX
MIMO TDMA Protocol

COMPATIBLE ANTENNAS

- AirMax Sector 2G-16-90
- AirMax Sector 2G-15-120
- Rocket Dish 2G-26

SYSTEM INFORMATION			
Processor Specs	Atheros MIPS 24KC, 400MHz		
Memory Information	64MB SDRAM, 8MB Flash		
Networking Interface	2 x 10/100 BASE-TX (Cat. 5, RJ-45) Ethernet Interface		
REGULATORY / COMPLIANCE INFORMATION			
Wireless Approvals	FCC Part 15.247, IC R5210, CE		
RoHS Compliance	YES		
OPERATING FREQUENCY 2412MHz-2462MHz			
TX POWER SPECIFICATIONS			
	DataRate	Avg. TX	Tolerance
11b/g	1-24Mbps	28 dBm	+/-2dB
	36Mbps	26 dBm	+/-2dB
	48Mbps	25 dBm	+/-2dB
	54Mbps	24 dBm	+/-2dB
11n / Airmax	MCS0	28 dBm	+/-2dB
	MCS1	28 dBm	+/-2dB
	MCS2	28 dBm	+/-2dB
	MCS3	28 dBm	+/-2dB
	MCS4	27 dBm	+/-2dB
	MCS5	25 dBm	+/-2dB
	MCS6	23 dBm	+/-2dB
	MCS7	22 dBm	+/-2dB
	MCS8	28 dBm	+/-2dB
	MCS9	28 dBm	+/-2dB
	MCS10	28 dBm	+/-2dB
	MCS11	28 dBm	+/-2dB
	MCS12	27 dBm	+/-2dB
	MCS13	25 dBm	+/-2dB
	MCS14	23 dBm	+/-2dB
MCS15	22 dBm	+/-2dB	
RX SPECIFICATIONS			
	DataRate	Sensitivity	Tolerance
11b/g	1-24Mbps	-97 dBm min	+/-2dB
	36Mbps	-80 dBm	+/-2dB
	48Mbps	-77 dBm	+/-2dB
	54Mbps	-75 dBm	+/-2dB
11n / Airmax	MCS0	-96 dBm	+/-2dB
	MCS1	-95 dBm	+/-2dB
	MCS2	-92 dBm	+/-2dB
	MCS3	-90 dBm	+/-2dB
	MCS4	-86 dBm	+/-2dB
	MCS5	-83 dBm	+/-2dB
	MCS6	-77 dBm	+/-2dB
	MCS7	-74 dBm	+/-2dB
	MCS8	-95 dBm	+/-2dB
	MCS9	-93 dBm	+/-2dB
	MCS10	-90 dBm	+/-2dB
	MCS11	-87 dBm	+/-2dB
	MCS12	-84 dBm	+/-2dB
	MCS13	-79 dBm	+/-2dB
	MCS14	-78 dBm	+/-2dB
MCS15	-75 dBm	+/-2dB	
PHYSICAL / ELECTRICAL / ENVIRONMENTAL			
Enclosure Size	16cm length x 8cm width x 3cm height		
Weight	0.5 kg		
RF Connector	2x RPSMA (Waterproof)		
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	-30C to 75C		
Operating Humidity	5 to 95% Condensing		
Shock and Vibration	ETSI300-019-1.4		

WispStation M5

Datasheet

WispStation™ M5

- 5 GHz WISP OEM Station
- Model: WSM5
- Powerful airOS® and airMAX® Technologies
- Low Cost OEM Platform
- Rock-Solid Performance

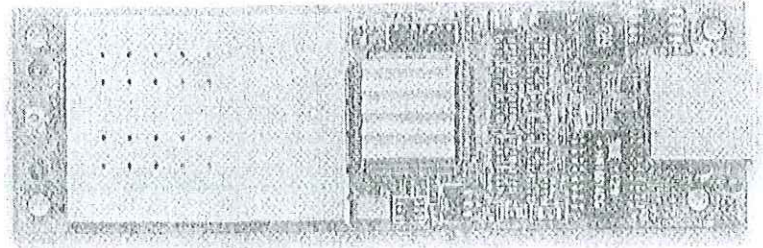


Overview

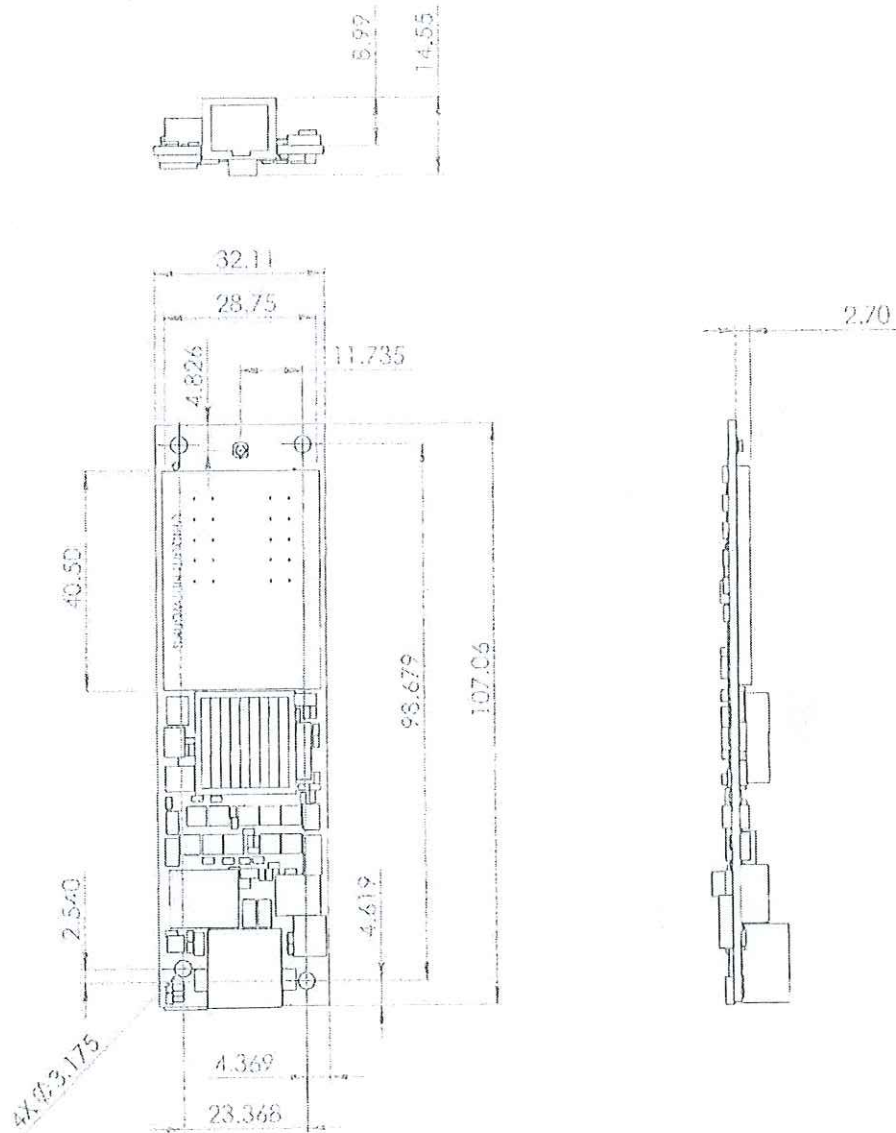
Description

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

Processor Specs		Atheros MIPS 24KC, 400 MHz					
Memory Information		32 MB SDRAM, 8 MB Flash					
Networking Interface		(1) 10/100 Ethernet Port					
Wireless Approvals		FCC Part 15.247, IC R5210, CE					
RoHS Compliance		YES					
TX Power Specifications				RX Power Specifications			
11a	Data Rate	Avg. TX	Tolerance	11a	Data Rate	Sensitivity	Tolerance
	1-24 Mbps	23 dBm	+/- 2dB		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
11n / airMAX	54 Mbps	19 dBm	+/- 2dB	11n / airMAX	54 Mbps	-84 dBm	+/- 2dB
	MCS0	23 dBm	+/- 2dB		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)					
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					
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					
System LEDs		Power, LAN					
Antenna Align / Signal Strength LEDs		Software adjustable to correspond to custom RSSI Levels					

* Only 5225 - 5850 MHz supported in the USA

www.ubnt.com/wispstationm5

WispStation M5

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.

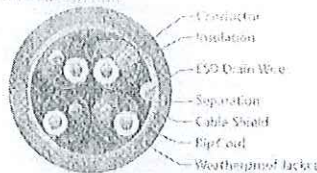
Level 2 is a Category 5e outdoor carrier-class shielded cable that features an Anti-Crosstalk Divider, additional shielding and is rated to provide optimal performance on Gigabit Ethernet networks.

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

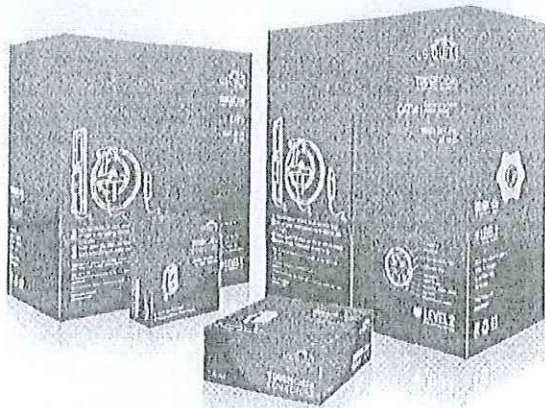
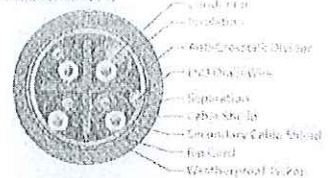
LEVEL 1

OUTDOOR CARRIER CLASS



LEVEL 2

OUTDOOR CARRIER CLASS

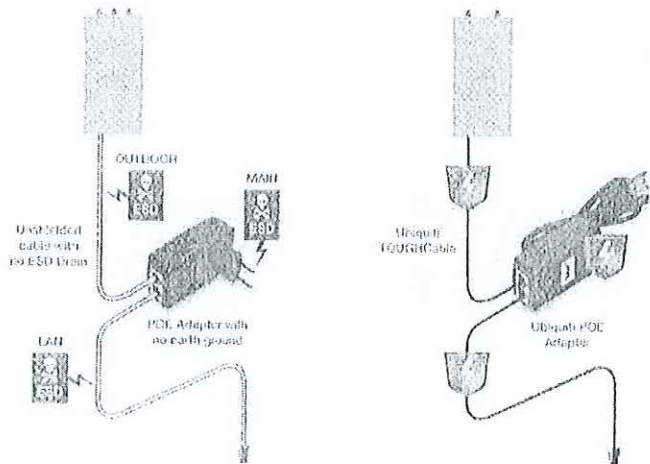


TOUGH Cable Connectors

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 overwhelming 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.



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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