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SECURITY CENTRES



TUDNAIR®



WIRELESS NETWORKING PRODUCT BROCHURE

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WIRELESS TRANSMISSION INCORPORATING DIP FUNCTION



Simply change the DIP switches to configure the wireless settings thus severely reducing deployment time

Gear Design

Improves stability and prevents any angle deviation



DIP Switch settings

No complicated setup interface; by changing DIP switch positions transmission parameters are automatically matched



Universal Joint

With 360 degree adjustable bracket

Spirit Level

Ensures accurate angle of device installation

Signal Light

Displays the status of the device





TA-DIP3220W

1 KILOMETER
2.4 GHz
WIRELESS NETWORK
AP / CPE



Product Size and Weight:

176 x 96 x 70.5mm

0.3kg



What's inside the Box?

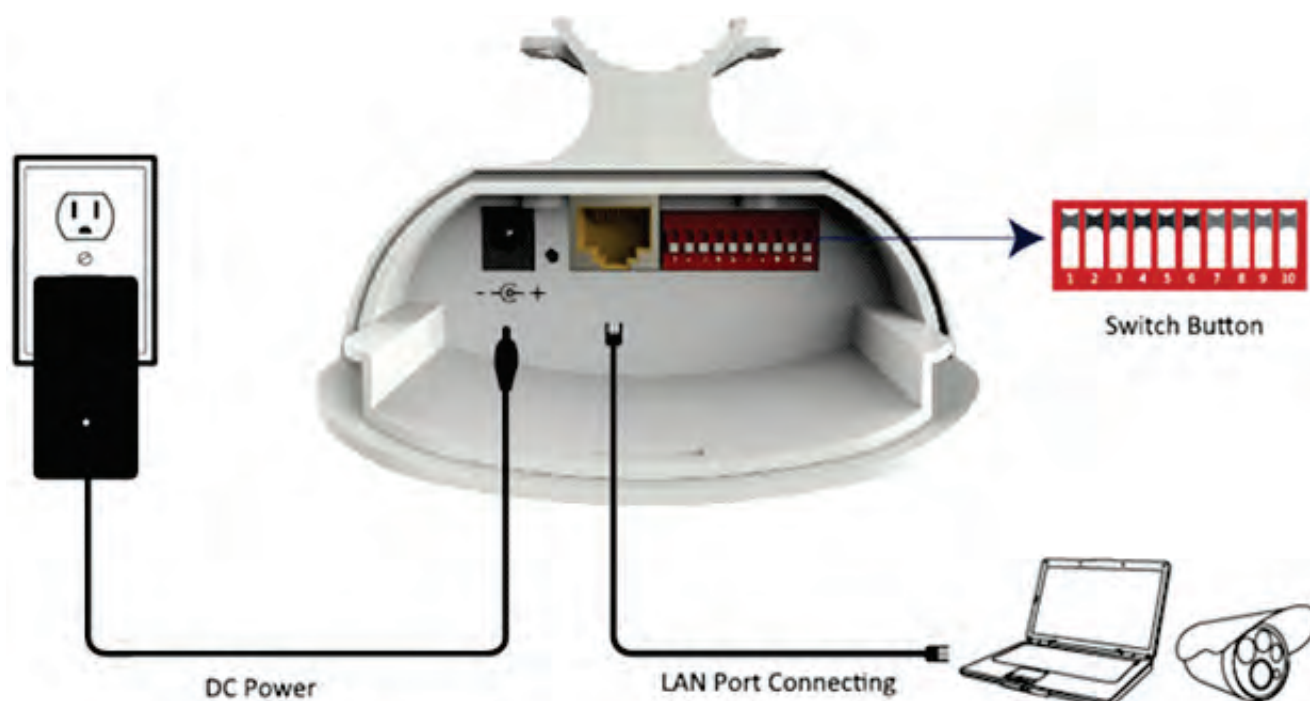
- 1 x DIP3220W
- 1 x Steel Ring
- 1 x Manual
- 1 x Certificate

Package Size and Weight

225 x 105 x 77mm
0.42kg



Connection Diagram



Specifications:

Chipset	Atheros AR9351 600MHz		
DRAM	DDR2 64MByte		
FLASH	8MByte		
Port	10/100Mbps LAN*1		
Speed	11b: 11M, 5.5M, 2M, 1Mbps		
	11g: 54M, 48M, 36M, 24M, 18M, 12M, 9M, 6Mbps		
	11n:6.5M, 13M, 13.5M, 19.5M, 26M, 27M, 39M, 40.5M, 52M, 54M		
	58.5M, 65M, 81M, 108M, 121.5M, 135M, 150M, 270M, 300Mps		
Transmission	DSSS		
Modulation	OFDM/BPSK/QPSK/CCK/DQPSK/DBPSK		
Standard	IEEE802.11n, IEEE802.11g, IEEE802.11b, IEEE802.3u		
Protocol	CSMA/CA, TCP/IP, IPX/SPX, NetBEUI, DHCP, NDIS3, NDIS4, NDIS5		
Channel	2312~2732MHz		
Power Dissipation	≤5W		
Power	DC 12V 1A, 24V PoE 0.5 A).CAN USE PSYS25 (12V) or TA-POE-240050-H (24V).		
RF @25℃ ± 2dB	802.11b	21±2dBm	
	802.11g	6-24Mbps	21±2dBm
		36-48Mbps	20±2dBm
		54Mbps	16±2dBm
	80211n	HT20	MCS 7 16±2dBm
		HT40	MCS 7 16±2dBm
Sensitivity	IEEE 802.11b	11Mbps ≤-85dBm	
	IEEE 802.11g	54Mbps ≤-70dBm	
	802.11n	Ht20	MCS 7 ≤-65dBm
		Ht40	MCS 7 ≤-62dBm
Antenna	Frequency	2300~2750MHz	
	Polarization	Vertical	
	Gain	10DBi	
Management	WEP Management	Yes	
	SNMP MIB	Yes	
	Telnet	Yes	
	Serial	Yes	
Security	MAC Address Control	No	
	Encryption	WEP 64/128bits, WPA, WPA2, 802.1x	
Operating Condition	Operating Temperature	-30~65℃	
	Storage Temperature	-50~80℃	
	Humidity	≤95%(non-condensed)	



TA-DIP1526-H

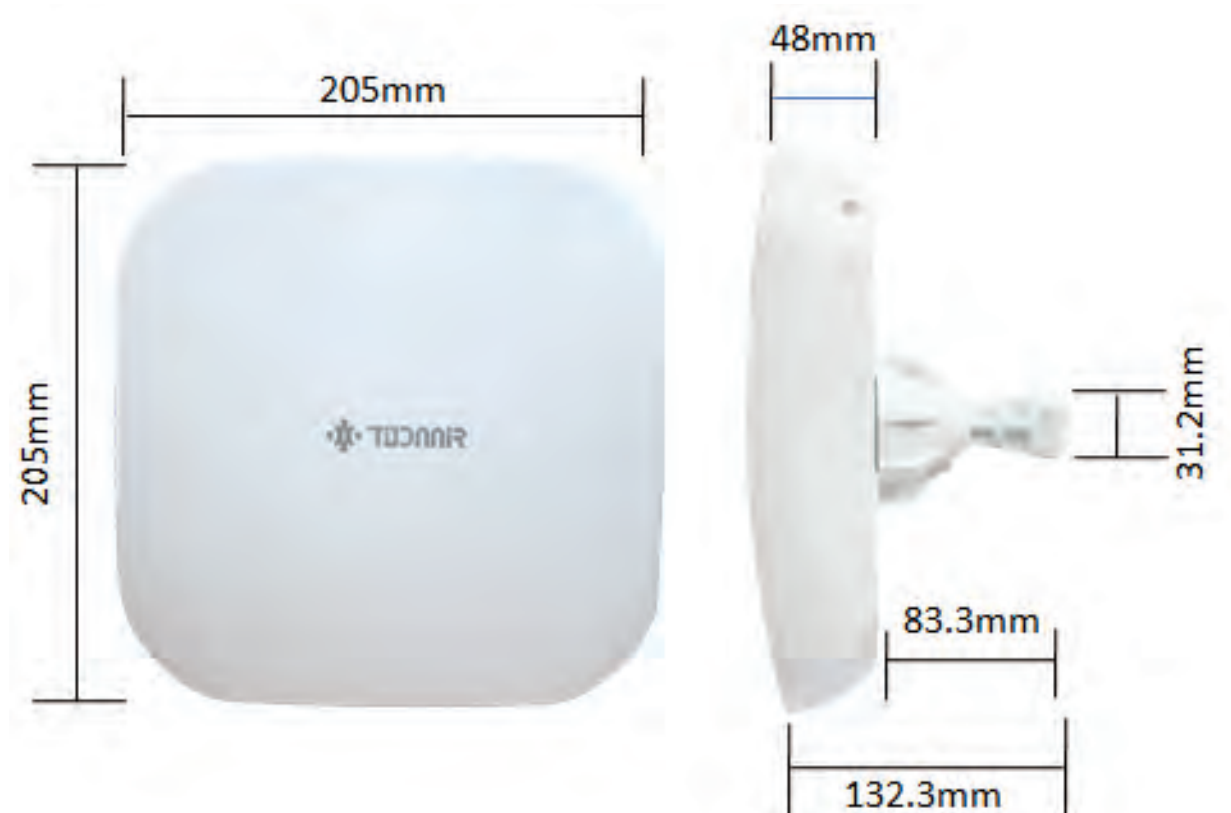
3 KILOMETER
5.8 GHz
WIRELESS NETWORK
AP / CPE



Product Size and Weight:

205 x 205 x 132.3mm

0.5kg



What's inside the Box?

- 1 x DIP1526-H
- 1 x 24V POE Power Adapter
- 1 x Ring
- 1 x Bracket Kit
- 1 x Screw
- 4 x Rubber Stick
- 1 x Manual



Package Size and Weight

235 x 225 x 114mm
1.0kg





Chipset	Atheros AR9344 600MHz			
Memory	DDR2 64MByte			
Storage	8MByte			
IC	SiGe5012B			
Port	10/100Mbps LAN*2			
Speed	11a:54M,48M,36M,24M,18M,12M,9M,6Mbps			
	11n:7.2M,14.4M,21.7M,28.9M,43.3M,57.8M,65M,72.2M,14.4M,28.9M,43.3M,57.8M,86.7M,115.6M,130M,144.4、150Mbps			
Transmission	DSSS			
Modulation	OFDM/BPSK/QPSK/CCK/DQPSK/DBPSK			
Standard	IEEE802.11n,IEEE802.11a ,IEEE802.3u			
Protocol	CSMA/CA,TCP/IP,IPX/SPX,NetBEUI,DHCP,NDIS3,NDIS4,NDIS5			
Channel	4900～6100MHz			
Power Dissipation	≤3W			
Power	POE 24V 1A			
RF @25°C±2dB	802.11a	6-24Mbps		23±2dBm
		36-48Mbps		22±2dBm
		54Mbps		21±2dBm
	802.11n	HT20	MCS 0-3	23±2dBm
			MCS 4	22±2dBm
			MCS 5	21.5±2dBm
			MCS 6	21±2dBm
			MCS 7	20.5±2dBm
		HT20	MCS 0-3	22±2dBm
			MCS 4	21.5±2dBm
			MCS 5	21±2dBm
			MCS 6	20.5±2dBm
			MCS 7	20±2dBm
Sensitivity	802.11a	6Mbps≤-89; 54Mbps≤-73		
	802.11n	HT20	MCS 0≤-86; MCS 7≤-68	
		HT40	MCS 0≤-83; MCS 7≤-65	
Antenna	Frequency		4900～6100MHz	
	Polarization		Vertical	
	Gain		12DBi	
Management	WEP Management		Yes	
	SNMP MIB		Yes	
	Telnet		Yes	
	Serial		Yes	
Security	MAC Address Control		No	
	Encryption		WEP 64/128bits, WPA, WPA2,802.1x	
Operating Condition	Operating Temperature		-30～65℃	
	Storage Temperature		-50～80℃	
	Humidity		≤95%（non-condensed）	

TA-DIP3510-H

5 KILOMETER

5.8 GHz

WIRELESS NETWORK

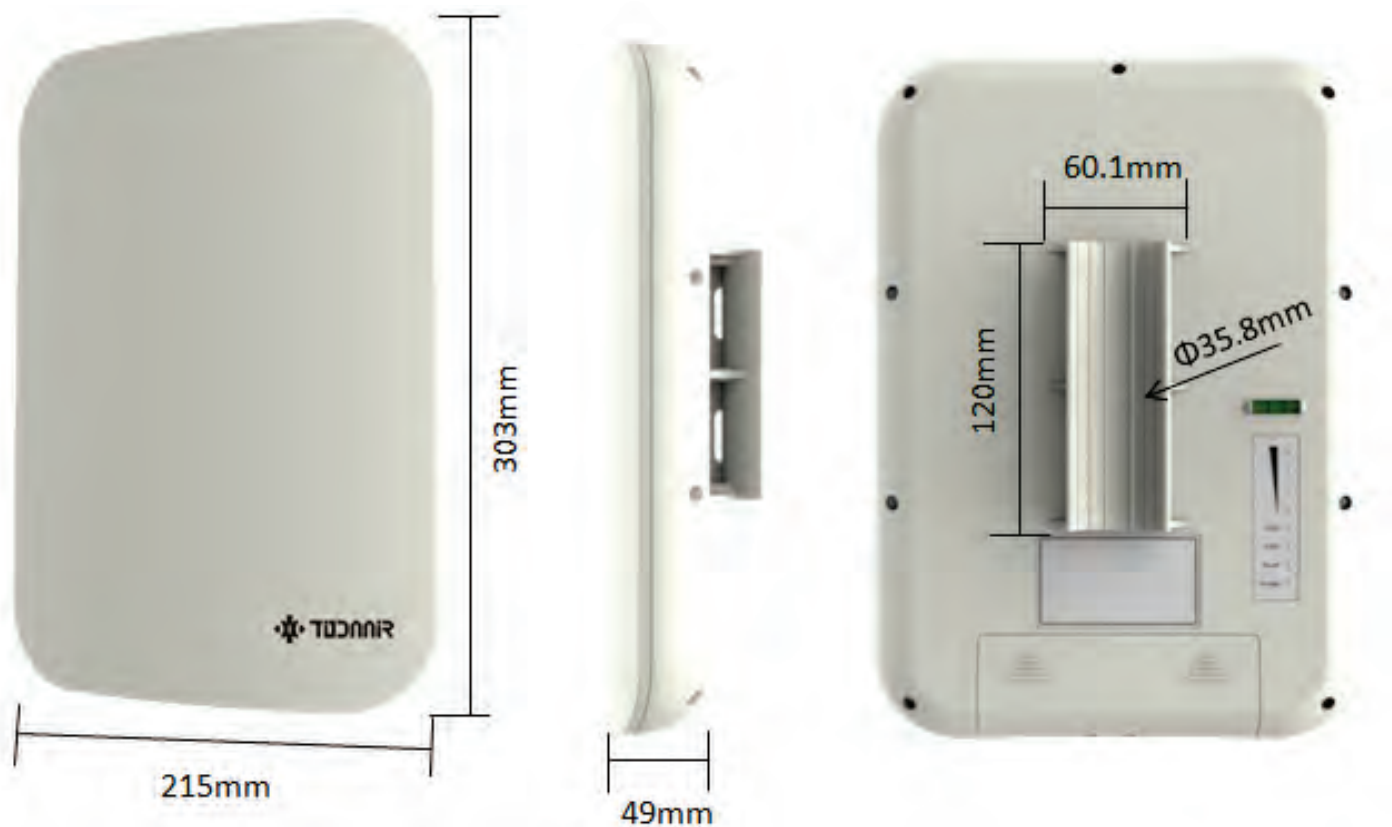
AP / CPE



Product Size and Weight:

303 x 215 x 49mm

0.9kg





What's inside the Box?

1 x DIP3510-H

1 x 24V POE Power Adapter

1 x Ring

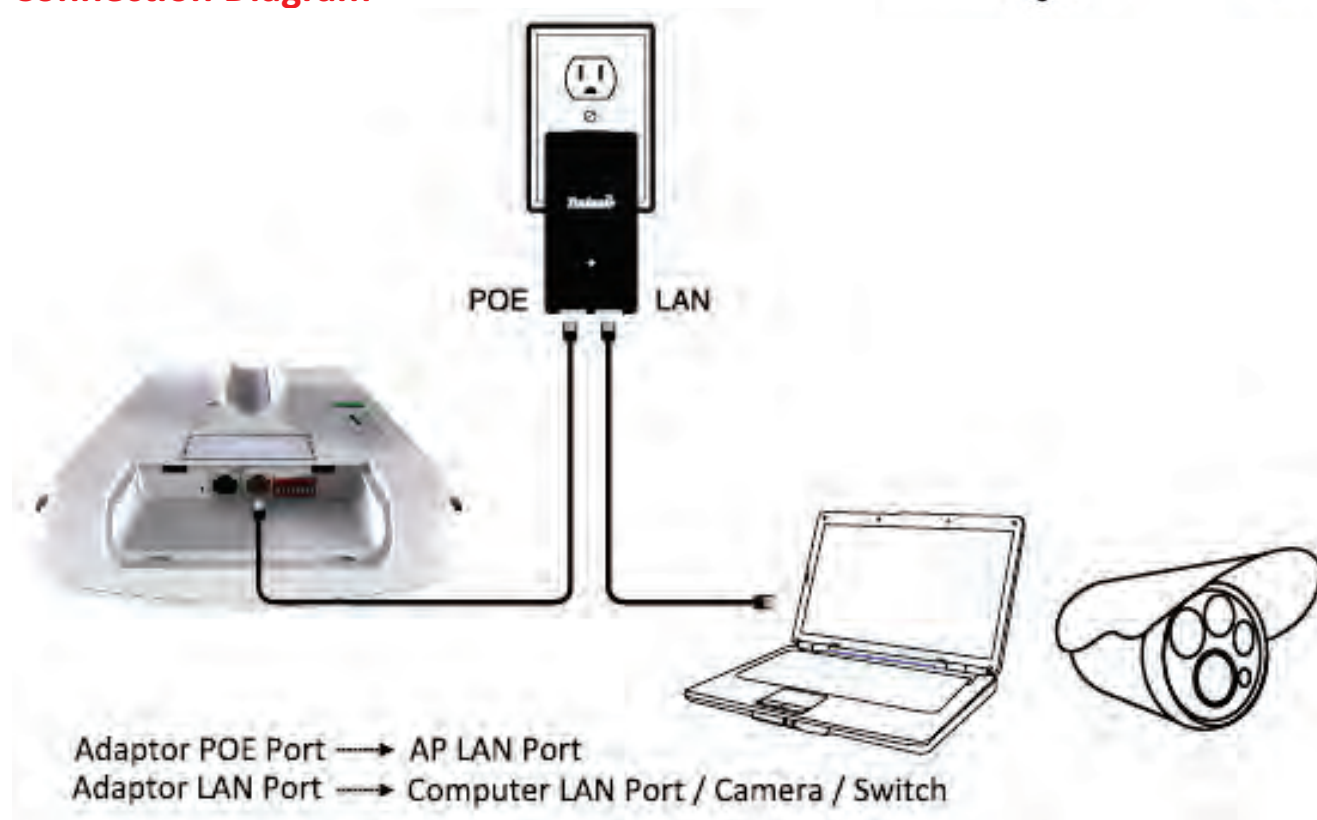
Package Size and Weight

346 x 320 x 86mm

1.5kg



Connection Diagram





Chipset	Atheros AR9344 600MHz					
Memory	DDR2 64MByte					
Storage	8MByte					
IC	SiGe5012B					
Port	10/100Mbps LAN*2					
Speed	11a:54M,48M,36M,24M,18M,12M,9M,6Mbps					
	HT20:7.2M,14.4M,21.7M,28.9M,43.3M,57.8M,65M,72.2M,14.4M,28.9M,43.3M,57.8M,86.7M,115.6M,130M,144.4Mbps					
	HT40:15M,30M,45M,60M,90M,120M,135M,150M,30M,60M,90M,120M,180M,240M,270M,300Mbps					
Transmission	DSSS					
Modulation	OFDM/BPSK/QPSK/CCK/DQPSK/DBPSK					
Standard	IEEE802.11n,IEEE802.11a ,IEEE802.3u					
Protocol	CSMA/CA,TCP/IP,IPX/SPX,NetBEUI,DHCP,NDIS3,NDIS4,NDIS5					
Channel	4900～6100MHz					
Power Dissipation	≤6W					
Power	POE 24V 1A					
RF @25℃±2dB	802.11a	6-24Mbps		26±2dBm		
		36-48Mbps		25±2dBm		
		54Mbps		24±2dBm		
	802.11n	HT20	MCS 0-3		26±2dBm	
			MCS 4		25±2dBm	
			MCS 5		24.5±2dBm	
			MCS 6		24±2dBm	
			MCS 7		23.5±2dBm	
		HT40	MCS 0-3		25±2dBm	
			MCS 4		24.5±2dBm	
			MCS 5		24±2dBm	
			MCS 6		23.5±2dBm	
			MCS 7		23±2dBm	
Sensitivity	802.11a	6Mbps≤-89; 54Mbps≤-73				
	802.11n	HT20		MCS0≤-86; MCS7≤-68		
		HT40		MCS0≤-83; MCS7≤-65		
Antenna	Frequency		4900～6100MHz			
	Polarization		Vertical/Horizontal			
	Gain		12DBi			
Management	WEP Management		Yes			
	SNMP MIB		Yes			
	Telnet		Yes			
	Serial		Yes			
Security	MAC Address Control		No			
	Encryption		WEP 64/128bits, WPA, WPA2,802.1x			
Operating Condition	Operating Temperature		-30～65℃			
	Storage Temperature		-50～80℃			
	Humidity		≤95%（non-condensed）			

PSU POE-240050-H

24V DC 0.5A PoE Injector

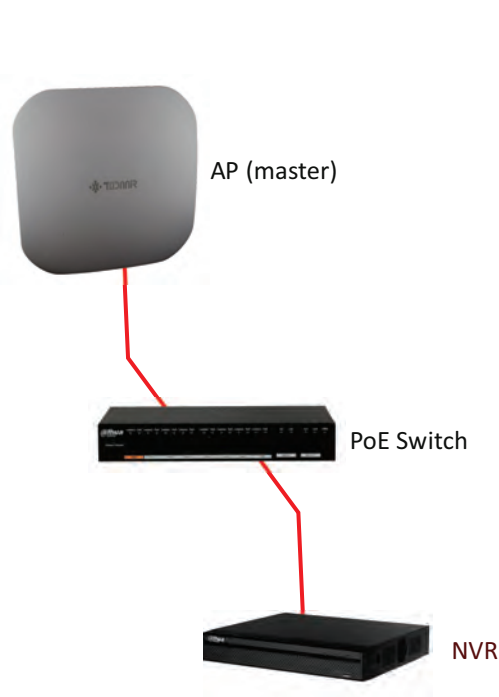


Input Voltage	100 – 240V AC 50~60Hz
Input Current	0.6A (RMS) max.
Output Voltage / Power	24V DC 0.5A 12W
Output Type	1 RJ45 Connector for PoE
	1 RJ45 Connector for LAN
Ethernet Speed	10/100Mbps
Material	Plastic
Approval	CE / ROHS / FC / UL
LED Indicator	Green for Power on
Operating Temp	0 to 40°C
Storage Temp	-20 to 85°C
AC Plug Type	Supplied with 3-prong SA Plug Top

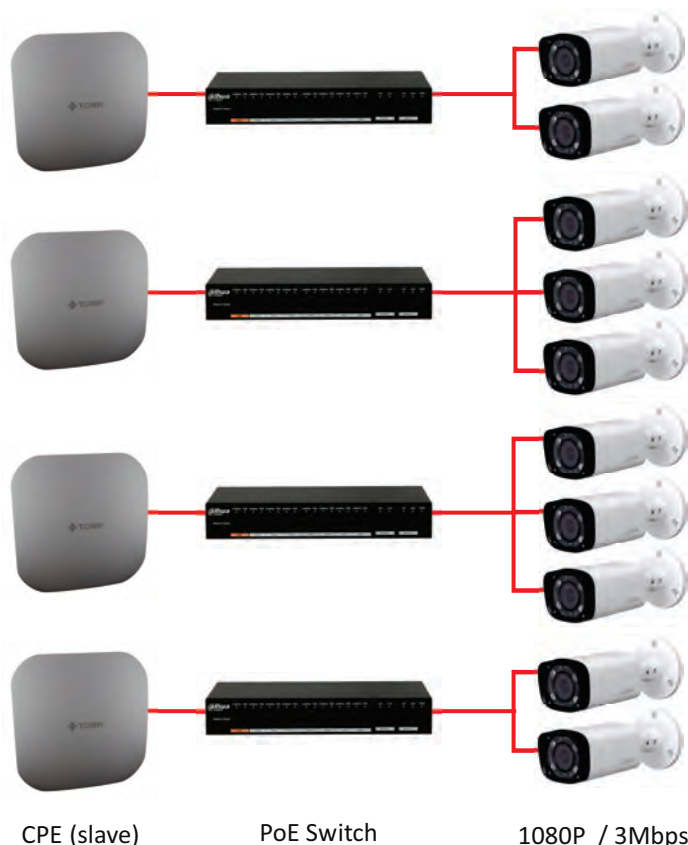
HOW MANY IP CAMERAS CAN YOU TRANSMIT?

DIP1526-H / 5.8Ghz / 150Mbps speed

Bandwidth: 50M in 2KM (save 30% value for camera bandwidth fluctuation)



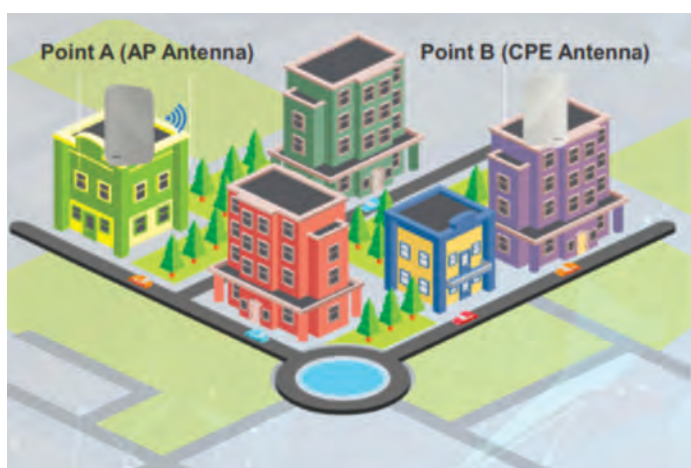
10 units IPC x 3Mbps = 30Mbps



WIRELESS TRANSMISSION MODE

This is the common Transmission Mode for Access Point (AP) Point-to-Point Transmission (PTP).

As an example: for PTP Transmission, 2 units of wireless APs work as a fibre cable or network cable to the device, which has a network port and so can be used for wireless transmission.



WIRELESS TRANSMISSION MODE

Point-to-Multipoint Transmission (PTMP)

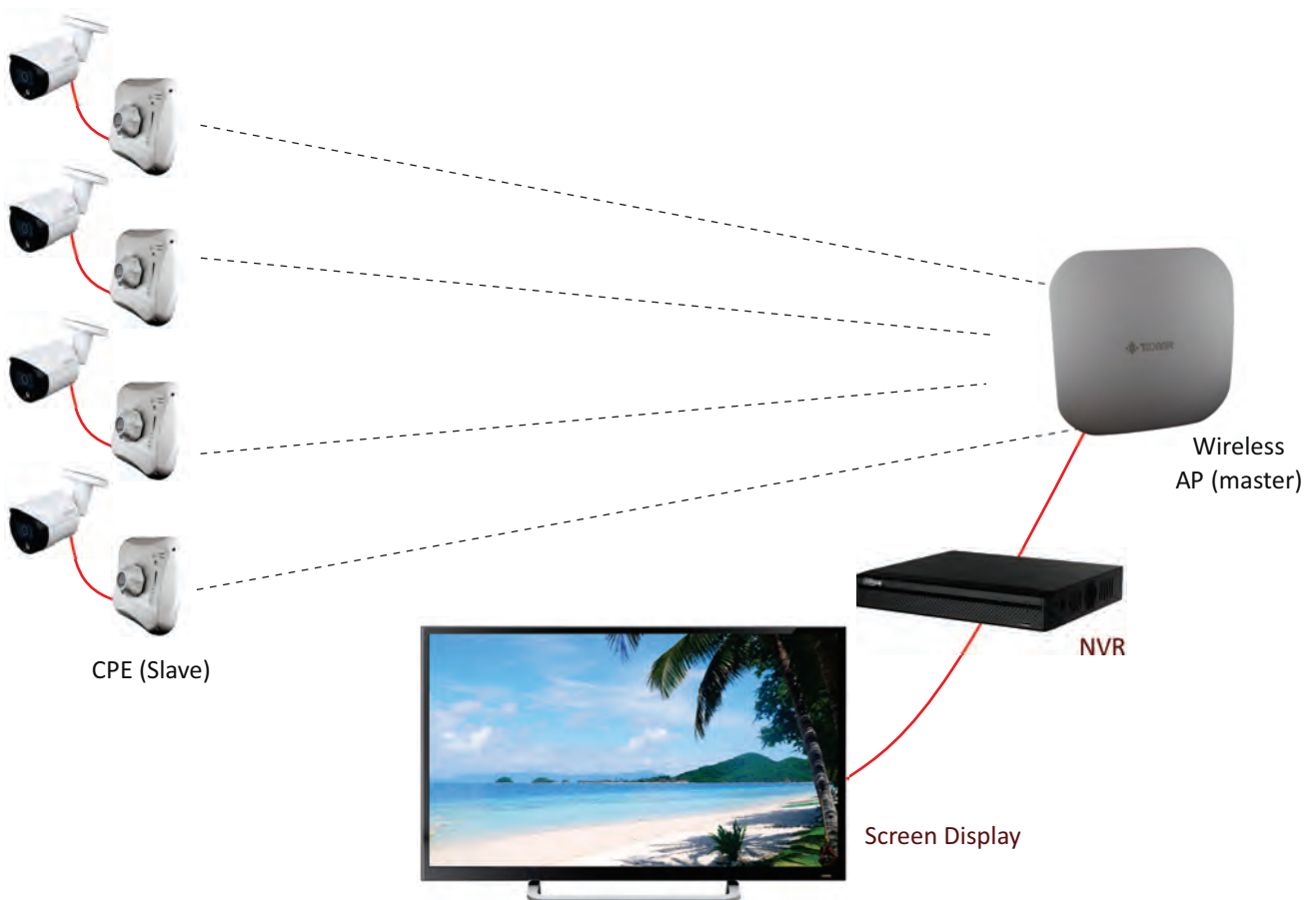
The Point-to-Multipoint topology (also called star topology or simply P2MP) is a common network architecture for outdoor wireless networks to connect multiple locations to one single central location.

In a Point-to-Multipoint wireless Ethernet Network, all remote locations do not communicate directly with each other but have a single connection towards the center of the star network where one or more base station is typically located.



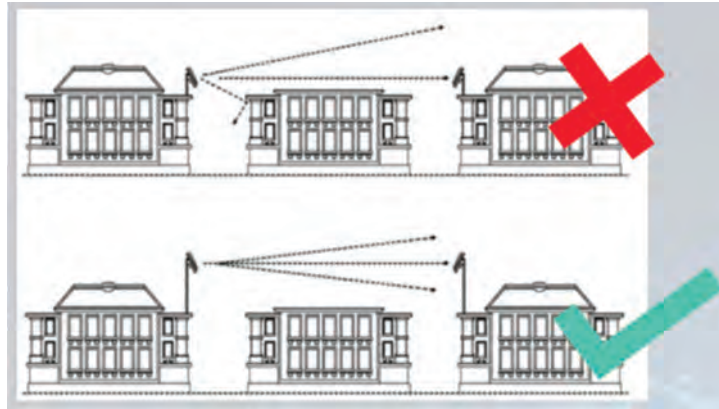
TRANSMISSION ANGLE OF WIRELESS AP

The farther the distance, the greater the scope of coverage.
The smaller the angle, the farther the transmission distance.



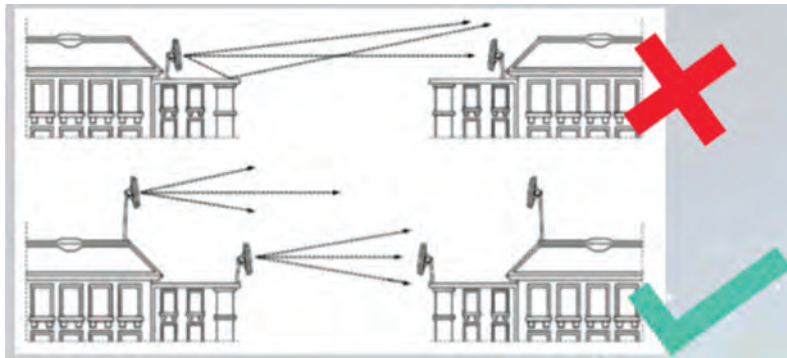
WIRELESS ACCESS POINT INSTALLATION

1. The installation diagrams below should be used to help you plan your wireless system installation carefully for the best results possible.

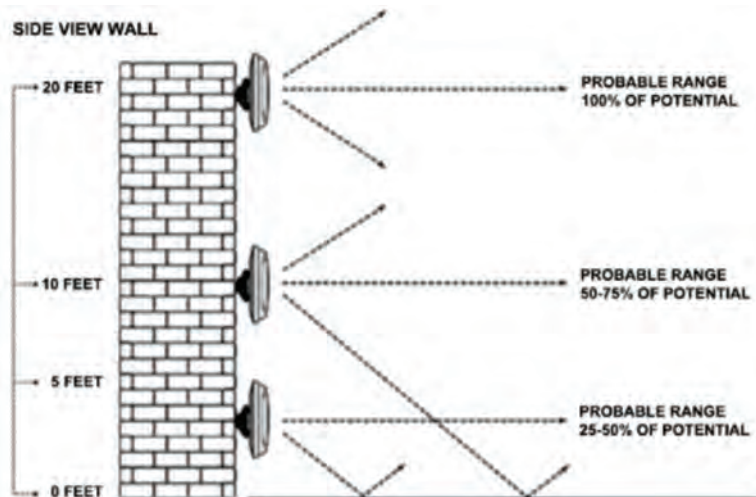


The above installation image illustrates that it is important to mount your wireless transmitter and receiver on poles to raise them above any obstructions. Besides, it's equally important to make sure that there is a direct line of sight between them.

When positioning your wireless transmitter and/or receiver units on roof-tops, provide a clear line of sight and avoid the possibility of signal multi-pathing by raising them on poles or locating them on the edge of the roofs.



The ground plane can cause multi-path issues and can significantly affect the range of your wireless transmission.



WWW.



WIRELESS NETWORKING PRODUCT BROCHURE

CONTACT US

GAUTENG BRANCHES

Johannesburg East (H.Q)	219 Jet Park Road, Aerostar Business Park	011 397 3507
Johannesburg North	174 Bernie Street, Kya Sand, Randburg	011 708 6442
Johannesburg South	12 Dante Street, Alberton	010 157 1161
Johannesburg West	599 Ontdekkers Road, Florida, Roodepoort	011 472 8823
Centurion	74 Cantonments Road, Cnr. Botha Ave, Lyttelton	012 880 0222
Pretoria	1185 Steve Biko Road, Wonderboom South	012 335 4290
Vanderbijlpark	4 Prime Business Park, 6 Rabie Street	016 931 0408
Johannesburg Training Centre	80 Herman Road, Harmelia, Ext. 2	011 397 3507

KZN BRANCHES

Durban North	Unit B, 213 Kenneth Kaunda Road	031 563 0274
Newcastle	12A Harding Street	034 880 0330
Pietermaritzburg	51 Winston Road	033 342 6722
Pinetown	Unit 1, Suffert Industria Park, 7 Suffert Street	031 702 6351
Vryheid	Unit F, 153 President Street, Cnr Hlobane Street	034 981 0318

WESTERN CAPE BRANCHES

Cape Town (Epping)	Unit 15, Viking Business Park, 7B Park Road, Epping Industria	021 534 5056
Cape Town (Diep River)	Shop 2, Tramways Village, 89 Main Road	010 880 8281
Cape Town (Brackenfell)	Unit 17B, Brackenfell Business Park, Old Paarl Road	021 879 1978
Cape Town (Montague Gardens)	16 Montague Drive	021 879 3102
George	No 8, C.J. Langenhoven Road, George Central	044 874 0669
Paarl	Shop 2, Huguenot Park, Cnr. Klein Drakenstein Road	021 862 0886
Somerset West	Shop 1, Broadway Centre, 11 Urtel Crescent	021 851 1978

NORTHERN CAPE BRANCHES

Kimberley	27A Schmidtsdrift Road, Rhodesdene	053 861 5631
Upington	67 Schroeder Street	054 332 1458

EASTERN CAPE BRANCHES

East London	Shop 5B, Paphos Park, 9 Devereaux Avenue	043 880 0830
Port Elizabeth	No 35 Third Avenue, Newton Park	041 365 7178

MPUMALANGA BRANCHES

Nelspruit	Unit 4, 20 Rapid Street, Riverside Industrial Park	013 752 7152
Ermelo	22 Kerk Street	017 880 0888

FREE STATE BRANCHES

Bloemfontein	18 Kolbe Lane, Oranjesig	051 448 6695
Bethlehem	Shop 8 & 9, River Walk Centre, 4 Muller Street	058 050 1090

LIMPOPO BRANCH

Polokwane	Cnr. Zune and Veldspaat Street, Extension 42	015 292 6273
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NORTH WEST BRANCHES

Klerksdorp	72 Central Avenue, Flamwood	018 468 8273
Potchefstroom	Havenga Building, 35 Dr. James Moroka Avenue	018 297 1488
Rustenburg	Shop 8, Waterfall Mall, 1 Howick Avenue	014 537 2884

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