



## 300 Mbps PTP Lite

**TW PTP 5.8 N300**

### OVERVIEW:

Super High Power 2x2 MIMO 5.8 Ghz delivering upto 300 Mbps.

TW Lite is a Radio Bridge & Router with Operational Range of 10 Kms. It balances enterprise-scale security, management and Quality of Service features with high performance.

It is a any Point to Multipoint and Multipoint-to Multipoint OFDM/MIMO Radio Bridge Equipment for High Bandwidth connectivity. It has a range of up to 15kms with the integrated antenna.

### FEATURES:

- ❖ OFDM /MIMO 4.9-6.1Ghz,
- ❖ Any Point to Any point and Multipoint to Multipoint.
- ❖ IP Routing
- ❖ OLSR & Static
- ❖ Ultra Secure 256 bit AES, WPA , WPA2 encryption
- ❖ Security, VPN and firewall
- ❖ GUI, Telnet, SSH
- ❖ QOS with Traffic Shaping
- ❖ Watch Dog Timer
- ❖ Sensitivity of (-)105 XR (Best in the Industry)
- ❖ Transmit Power Control
- ❖ Web-based Administration Manager

### HOTSPOT

Built-in HOTSPOT and Bingo, plus PPPOE server/client

### Built-in Router Specifications:

Basic Network Platform  
TCP/IP protocol suite

**Firewall and NAT**

Packet filtering, source and destination NAT, source MAC addresses, ports, protocols, protocol options, interfaces.

**Routing**

Static, mesh OLSRD

**Bridging**

Spanning tree protocol, multiple bridge interfaces, bridge firewall

**Bandwidth Management**

Per IP / protocol / subnet / port, CBQ, RED, SFQ, byte limited queue, packet limited queue

**QOS**

Full Scale QOS with traffic shaping and user friendly Presets .

DNS client/Server  
Name resolving for local use, Dynamic DNS Client

**Multiple SSID**

Offers Virtual AP support with multiple SSID and individual encryption and IP address/ DHCP.

**SNMPV2**

read only access

**Tunnels**

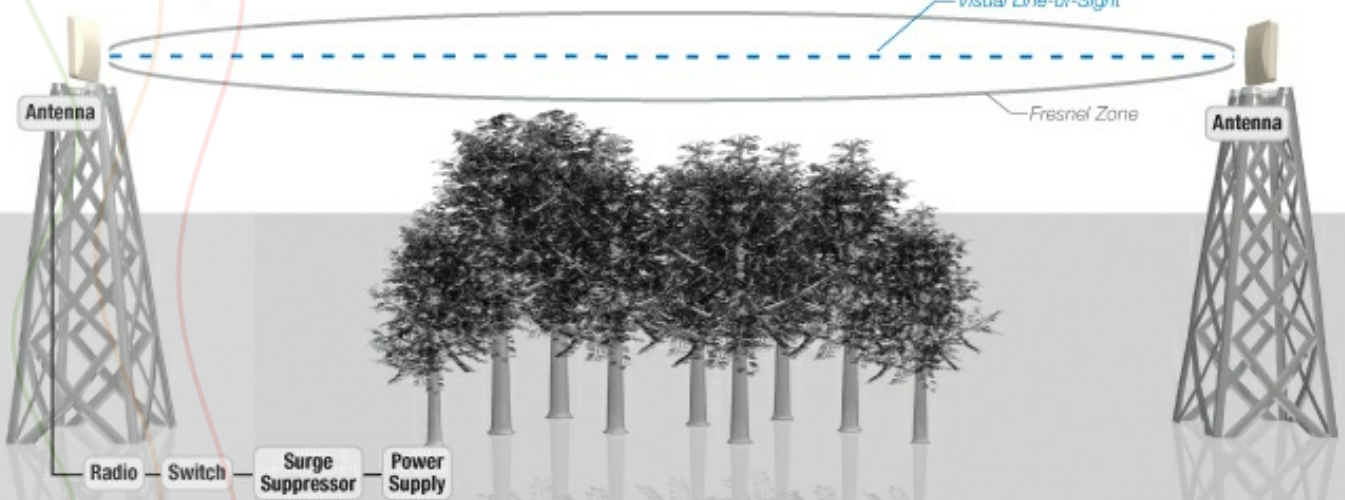
PPTP, EoIP (Ethernet over IP)  
Multicasting support (beta available)

**VLAN**

NTP Network Time Protocol server and client

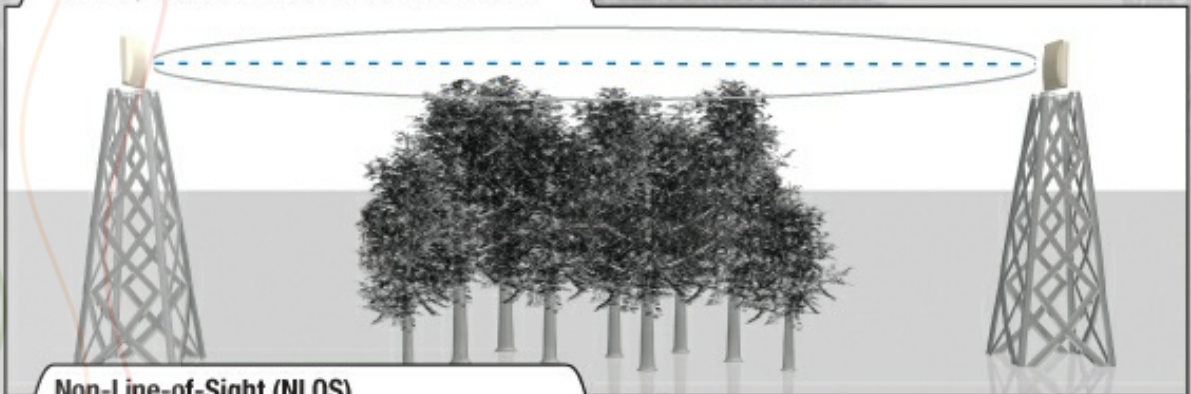
## Line-of-Sight (LOS)

Clear Optical LOS and Fresnel Zone



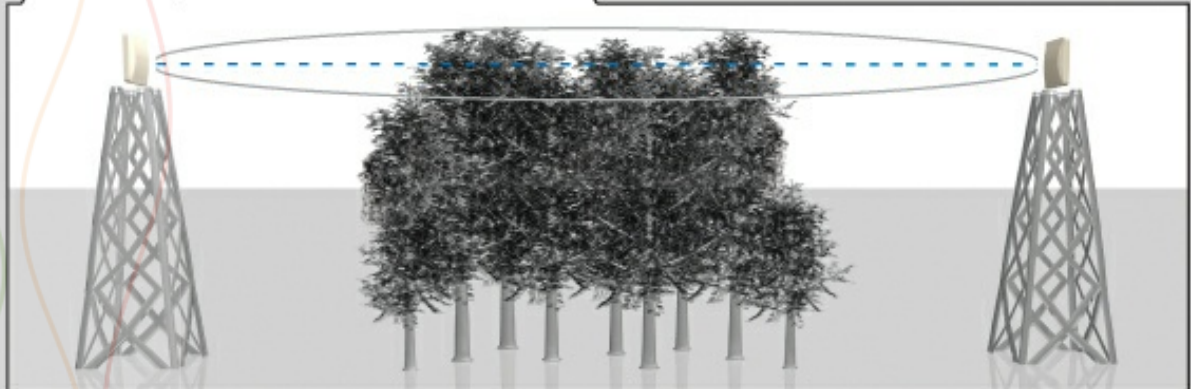
## Near-Line-of-Sight (nLOS)

Clear Optical LOS and blocked Fresnel Zone



## Non-Line-of-Sight (NLOS)

Blocked Optical LOS and blocked Fresnel Zone



## Specifications:

<b>Standards</b>	IEEE 802.11 b/g/n、 IEEE 802.3u (10/100 Base T)
<b>Data Rate</b>	802.11b: Up to 11 Mbps 802.11g: 54Mbps; 802.11 n:150Mbps
<b>Physical Spec.</b>	Dimension – 7” x 11” x 5” 1.2 Kg
<b>Hardware</b>	Output Power : 25 dBm Antenna – 23 dbi integrated / External connectorised option available Watchdog Timer: software / Hardware / Temperature Frequency Stability: within +/- 20 ppm Data Modulation: BPSK, QPSK, CCK and OFDM Power: DC or passive PoE 12-18V, 12V@1A Mode B (4//5 + & 7/8)
<b>Maximum Wireless Users</b>	254
<b>Recommended wireless users</b>	64
<b>Environmental Spec.</b>	Operating Temperature: -40°C - +55°C
	Storage: -20°C – 90°C
	Humidity: 5% - 98% non - condensing
<b>Ordering Info</b>	<b>TW PTP Lite 5.8 N300</b>

MCS Index	Spatial Streams	Modulation Type	Coding Rate	Data Rate Mbps			
				20 MHz channel		40 MHz channel	
				800ns GI	400ns GI	800ns GI	400ns GI
0	1	BPSK	1/2	6.50	7.20	13.50	15.00
1	1	QPSK	1/2	13.00	14.40	27.00	30.00
2	1	QPSK	3/4	19.50	21.70	40.50	45.00
3	1	16-QAM	1/2	26.00	28.90	54.00	60.00
4	1	16-QAM	3/4	39.00	43.30	81.00	90.00
5	1	64-QAM	2/3	52.00	57.80	108.00	120.00
6	1	64-QAM	3/4	58.50	65.00	121.50	135.00
7	1	64-QAM	5/6	65.00	72.20	135.00	150.00
8	2	BPSK	1/2	13.00	14.40	27.00	30.00
9	2	QPSK	1/2	26.00	28.90	54.00	60.00
10	2	QPSK	3/4	39.00	43.30	81.00	90.00
11	2	16-QAM	1/2	52.00	57.80	108.00	120.00
12	2	16-QAM	3/4	78.00	86.70	162.00	180.00
13	2	64-QAM	2/3	104.00	115.60	216.00	240.00
14	2	64-QAM	3/4	117.00	130.00	243.00	270.00
15	2	64-QAM	5/6	130.00	144.40	270.00	300.00

\*Specifications are subject to change without prior notice, contact sales for detailed specifications.

\* Order has to be specified either integrated or external connectorised