



# Pegasus TwistPort™ Series Radio

Vastly improve co-location performance and reduce noise



30° Symmetrical Horn Sector Antenna

TwistPort Radio



Excellent noise rejection and supreme scalability options



No coaxial RF connectors or cables that cause significant signal loss.



Easy installation

The Pegasus TwistPort™ radio delivers superior RF performance by combining carrier-grade hardware components with a robust and stable virtually lossless RF waveguide connector. Combine this new revolutionary technology with game changing Symmetrical Horn Sector Antennas and you will vastly improve co-location performance and reduce noise. No more pigtailed!

## Symmetrical Horn Antenna with Twistport Connector and Carrier Class Performance

Symmetrical Horn Antennas offer excellent noise rejection and supreme scalability options. They have a symmetrical beam pattern, no sidelobes, and are extremely compact. SH-TP antennas are perfect for high-density AP clusters and radio co-location.

Symmetrical Horn TP Antennas feature our industry-changing TwistPort connector, a patent-pending quick-locking waveguide port. TwistPort is virtually lossless: there are no coaxial RF connectors or RF cables that cause significant signal loss. We offer a wide range of TwistPort antennas with various radiation angles and gain.

## UltraDish™ TP 400 - Directional Parabolic Dish Antenna with TwistPort Connector

UltraDish TP 400's are designed for CPE or PtP connections. The antenna reflector is made from an aluminum alloy to ensure a very uniform shape. Our virtually lossless TwistPort connector guarantees easy radio deployment and maintenance.

## Symmetrical Horn Antenna

### TECHNICAL DATA

Antenna Connection	TwistPort - Quick Locking Waveguide Port		
Antenna Type	Horn		
Materials	UV Resistant ABS Plastic, Polycarbonate, Polypropylene, Aluminium, Stainless Steel		
Environmental	IP55		
Weight	<b>30°</b>	<b>60°</b>	<b>90°</b>
	2 Kg /4.4 lbs	1.5Kg/3.3lbs	1.5Kg/3.3lbs
Product Dimensions			
	<b>30°</b> H 270 mm x W 202 mm X D 280 mm		
	<b>60°</b> H 148 mm x W 161 mm X D 260 mm		
	<b>90°</b> H 127 mm x W 159 mm X D 260 mm		

### PERFORMANCE

Frequency Range	5180 - 6400 MHz		
	<b>30°</b>	<b>60°</b>	<b>90°</b>
Gain	18.5 dBi	13.2 dBi	10 dBi
Azimuth Beam Width -3 dB	H 21° / V 21°	H 41° / V41°	H 67° / V67°
Elevation Beam Width -3 dB	H 21° / V 21°	H 41° / V41°	H 67° / V67°
Azimuth Beam Width -6 dB	H 30° / V 30°	H 60° / V60°	H 90° / V90°
Elevation Beam Width -6 dB	H 30° / V 30°	H 60° / V60°	H 90° / V90°
Front-to-Back Ratio	37 dB	36 dB	28 dB

## UltraDish™ TP 400

### PHYSICAL

Antenna Connection	TwistPort - Quick Locking Waveguide Port
Antenna Type	Parabolic Dish
Environmental	IP65
Pole Mounting Diameter	22-80 mm (0.86 to 3.1 inches)
Temperature	-40° to +60°C (-40°F to +140°F)
Wind Survival	160 Km/h (100 mph)
Weight	2.7 Kg / 6 lbs – single unit
Dimensions	Retail Box 4PACK: 45 x 45 x 39 cm

### PERFORMANCE

Gain	24.5 dBi
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Azimuth Beam Width -6 dB	H 11° / V 11°
Elevation Beam Width -6 dB	H 11° / V 11°
Azimuth Beam Width -3 dB	H 7° / V 7°
Elevation Beam Width -3 dB	H 7° / V 7°
Front-to-Back Ratio (Min)	35 dB

## PEGASUS RADIO

WLAN Standard	802.11a (54 Mbps) 802.11n (150 Mbps) 802.11ac (300 Mbps)
Radio Scheme	802.11a/n: OFDM (64QAM, 16QAM, QPSK, BPSK) 802.11ac: OFDM (MCS0-9) (Max 256QAM)
Frequency Range	U-NII-3 5.725 – 5.85 GHz (US and Canada)
RF Output Power	Up to 27 dBm adjustable
Receiver Sensitivity	802.11a: -94 +/- 1.5db @ 6 Mbps, -74 +/- 1.5db @ 54 Mbps 802.11n: -94 +/- 1db @ 6 Mbps, -74 +/- 1db @ 150 Mbps 802.11ac: -96 +/- 1db @ 30 Mbps, -72 +/- 1db @ 300 Mbps
Data Rate	802.11a: 54 / 48 / 36 / 24 / 12 / 9 / 6 Mbps 802.11n: 54 / 48 / 36 / 24 / 12 / 9 / 6 Mbps 802.11ac: 300 / 270 / 240 / 180 / 120 / 90 / 60 / 30 Mbps
Power Supply	18 VDC Passive POE
Surge Protection	ESD: > 6kV Surge Handling: 8/20 uS (1kA)
Operating Environment	-35° F to +165° F (-37° C TO +74° C)
Kits Include	Radio unit, pole mounting bracket, POE power supply, 150 ft. (45 m) outdoor Ethernet cable
Non-Kits Include	Radio unit, pole mounting bracket, POE power supply
Enclosure	H 190 mm x W 147 mm x D 85 mm 0.4kg / 0.9 lbs.
Wind Survivability	160 Km/h (100 mph)
Certification	FCC / IC
Warranty	5 Years limited warranty

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