

## NON CELLULAR DIRECTIONAL BASE STATION ANTENNAS

### Yagi Base Station Antennas



#### Technical Data

<b>Polarization:</b> Vertical or horizontal, linear (user adjustable)
<b>Nominal Impedance:</b> 50 ohms
<b>VSWR:</b> < 1.5:1
<b>Wind Survival:</b> 125 mph
<b>Cable:</b> 18" coax
<b>Termination:</b> N female
<b>Mounting Method:</b> Heavy duty yagi mounting bracket (included) permits mast mounting on masts up to 2" O.D.

For detailed specifications,  
visit <http://antenna.pctel.com>.

### WISP Enclosed Yagi Antenna

The yagi antenna can be used as bridge antenna between two networks or for point-to-point communications. It is field adjustable for vertical or horizontal polarization with matched principal plane beamwidths for optimum performance in either orientation. This design also provides improved front-to-back ratio and sidelobe suppression that reduces interference. The antenna features a robust mounting structure for consistent performance regardless of weather conditions.

#### Features

- Field adjustable to allow vertical or horizontal polarity. Eliminates co-channel interference from neighboring radiators. Polarity markings molded on the antenna ensure installation in the correct orientation.
- Includes a robust mast mount bracket designed to withstand 125 mph wind.
- Matched principal plane beamwidths with excellent sidelobe suppression and cross-polarization rejection of more than 20 dB. Provides superior signal quality with enhanced gain performance and minimal interference from neighboring radiators.
- 30 dB front-to-back ratio permits less physical separation on the tower, adding mounting flexibility at installation sites where space is limited.
- Attractive weather-proof radome constructed of UV resistant material. Provides robust and trouble-free use in harsh outdoor environments.

#### Antenna Electrical Specifications

Model	Frequency Range	Gain	Horizontal Plane Beamwidth	Vertical Plane Beamwidth	Front-to-Back Ratio
WISP24015PTNF	2.4-2.48 GHz	15 dBi	30°	30°	30 dBi

#### Mechanical Specifications

Model	Dimensions	Weight (Mass)	Lateral Thrust at Rated Wind	Equivalent Flat Plate Area
WISP24015PTNF	14" x 3" OD	1 lbs	18.3 lbs	0.20 ft <sup>2</sup>