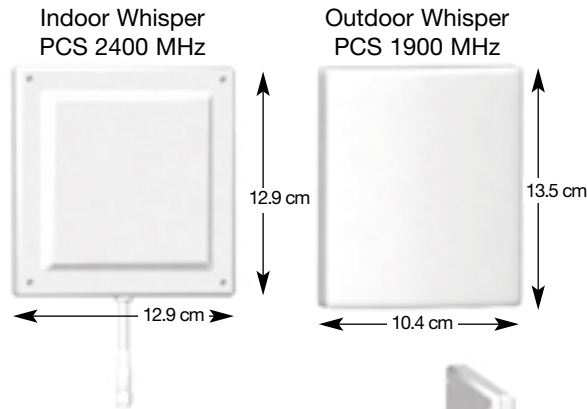


WHISPER™

UNIDIRECTIONAL ANTENNA

PRODUCT SHEET

Self contained in its durable sleek radome, the Xertex Whisper antenna is designed to blend in anywhere—residential, campus or commercial. Inexpensive yet reliable, the Whisper antenna utilizes Xertex’ patented technology to achieve maximum efficiency. Typical applications include wireless local loop, in-building wireless (voice and data), WLAN, DECT, WPBX, and broadband Internet access.



The Whisper antenna is mounted with either a gimbal arm offering $\pm 90^\circ$ of rotation in any direction, or a metal bracket offering $\pm 45^\circ$ of horizontal rotation.



The Best Antennas Go UnseenSM



Customized and scalable to meet your frequency and application requirements

	850 MHz	920 MHz	1800 MHz	1900 MHz	INDOOR 2400 MHz	OUTDOOR 2400 MHz
Element Type	Air-Loaded Patch	Air-Loaded Patch	Air-Loaded Patch	Air-Loaded Patch	Air-Loaded Patch	Air-Loaded Patch
Frequency Range	806-896 MHz	880-960 MHz	1710-1880 MHz	1850-1990 MHz	2400-2500 MHz	2400-2500 MHz
Peak Gain	7.5 dBi	7.5 dBi	8.5 dBi	8.5 dBi	9.0 dBi	8.5 dBi
Polarization ¹	Linear	Linear	Linear	Linear	Linear	Linear
Azimuth 3dB Beamwidth	80°	80°	80°	80°	60°	80°
Elevation 3dB Beamwidth	60°	60°	60°	60°	60°	60°
Impedance	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms	50 ohms
Maximum Input Power	50 watts	50 watts	50 watts	50 watts	50 watts	50 watts
Front/Back Ratio	18 dBi	18 dBi	18 dBi	18 dBi	20 dBi	18 dBi
VSWR (Min. Performance)	1.5:1	1.5:1	2.0:1	2.0:1	1.5:1	1.8:1
Azimuth Cross Polarization	15 dB (on axis)	15 dB (on axis)	15 dB (on axis)	15 dB (on axis)	15 dB (on axis)	15 dB (on axis)
Elevation Cross Polarization	15 dB (on axis)	15 dB (on axis)	15 dB (on axis)	15 dB (on axis)	15 dB (on axis)	15 dB (on axis)
Connector			Customer Choice	Customer Choice	Customer Choice	Customer Choice
Size	28.4x22.4x5.6cm	28.4x22.4x5.6cm	10.4x13.5x3.6cm	10.4x13.5x3.6cm	12.9x12.9x2.22cm	10.4x13.5x3.6cm
Radome Material (Indoor)	ABS	ABS	ABS	ABS	ABS	
Radome Material (Outdoor)	Kydex ³	Kydex ³	Luran ³	Luran ³		Luran ³
Operating Temperature	-40° to +70° C	-40° to +70° C	-40° to +70° C	-40° to +70° C	-40° to +70° C	-40° to +70° C
Storage Temperature	-40° to +70° C	-40° to +70° C	-40° to +70° C	-40° to +70° C	-40° to +70° C	-40° to +70° C
Model Numbers ²						
Indoor ⁴	850LW7G-SM00	920LW7G-SM00	180LW7G-SM12	190LW7G-SM12	245LD9W-SM12	
Outdoor ⁴	850LW70-NF00	920LW70-NF00	180LW70-SM12	190LW70-SM12		245LW70-SM12

¹All models, except for -xx00 suffix model numbers, include a low-loss, RG142, plenum rated "pigtail" cable.

²Polarization axis is parallel to the cable axis, or along the long axis of the antenna for models without cable pigtails.

³Please contact your Xertex representative for different connector options and their part numbers.

⁴UV Tolerance rated to 7 years of outdoor exposure.

⁵Model number suffix -SM00 = SMA female, -SMXX = SMA male, -NF00 = N female

Applications

- WPBX
- WLAN, Indoor/Outdoor
- WLL
- Microcells
- Picocells
- Wireless Internet Access
- Indoor Wireless

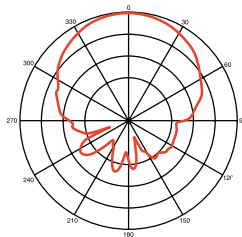
Mounting Options

Installers can mount the Whisper antenna using a standard wall plate, a low profile pan/tilt mount, or a universal pan/tilt mount. The indoor 2400 MHz also includes holes to directly mount the antenna to walls using hardware provided with the product.

Typical Antenna Patterns

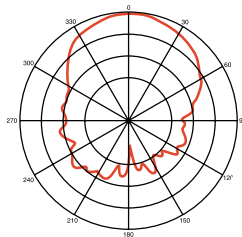
Azimuth Plane

(cut perpendicular to the antenna and perpendicular to the cable)

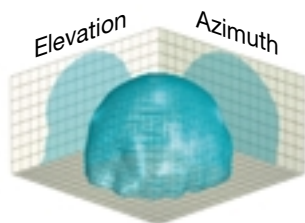


Elevation Plane

(cut perpendicular to the antenna along the cable axis)



Spherical Projection



As shown in these typical antenna patterns, the Whisper antenna offers excellent high-gain reception over a broad area.



452 Burbank Street
Broomfield, CO 80020
(303) 635-2000 phone
(303) 635-2003 fax
www.xertex.com