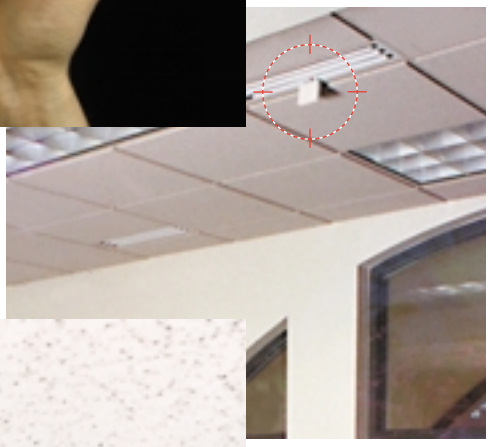
XERTEX

TERRACE™
BI-DIRECTIONAL ANTENNA

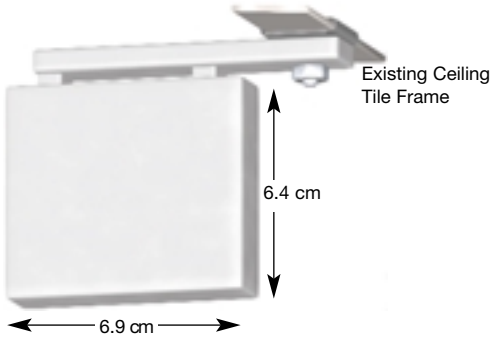
PRODUCT SHEET

The Xertex Terrace bi-directional antenna utilizes a patented low-profile design to provide coverage in corridors or long hallways.

This antenna provides outstanding performance in healthcare and office environments, where a long hallway requires one base station rather than two. Typical applications include wireless local loop, in-building wireless (voice and data), WLAN, DECT, WPBX, and PHS.



Terrace PCS 2400 MHz



XERTEX TECHNOLOGIES

The Best Antennas Go Unseen℠

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BI-DIRECTIONAL ANTENNA

SPECIFICATIONS

Customized and scalable to meet your frequency and application requirements

	PCS 1900 MHz	ISM 2400 MHz
Element Type	Air-Loaded Patch	Air-Loaded Patch
Frequency Range	1850-1990 MHz	2400-2500 MHz
Peak Gain	5.0 dBi	5.0 dBi
Polarization[1]	Linear	Linear
Azimuth 3dB Beamwidth	60°	60°
Elevation 3dB Beamwidth	30°	30°
Impedance	50 ohms	50 ohms
Maximum Input Power	50 watts	50 watts
VSWR (Min. Performance)	2.0:1	1.8:1
Connector	Customer Choice	Customer Choice
Size	8x8.8x3.2cm	6.9x6.4x2cm
Radome Material	ABS	ABS
Operating Temperature	-40° to +70° C	-40° to +70° C
Storage Temperature	-40° to +70° C	-40° to +70° C
Model Numbers[2]		
With N-type connector	190BD5W-NF12	245BD5W-NF12
With SMA (male)	190BD5W-SM12	245BD5W-SM12

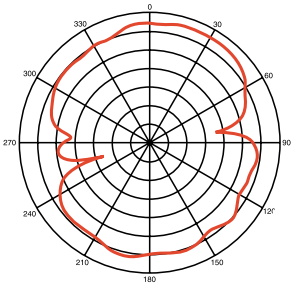
All models include a low-loss, RG142, plenum rated “pigtail” cable.

[1]Polarization axis is parallel to the cable axis.

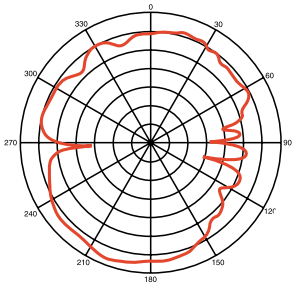
[2]Please contact your Xertex representative for different connector options and their part numbers.

Typical Antenna Patterns

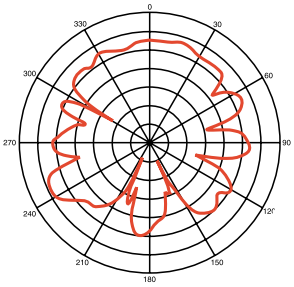
Azimuth Plane
(cut perpendicular to the antenna and perpendicular to the cable)



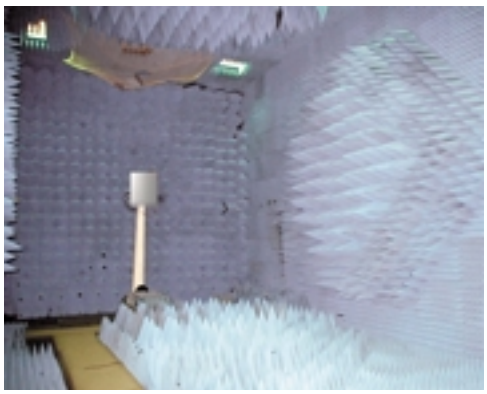
Elevation Plane
(cut perpendicular to the antenna along the cable axis)



Omni Plane
(cut in the plane of the antenna parallel to the cable)



As shown in these typical antenna patterns, the Terrace antenna offers excellent high-gain, two-way performance over a broad area.



Xertex designs and tests the Terrace antennas, as well as other stock and custom designs, in its state-of-the-art Colorado facility. Xertex can modify an existing design or create a new solution to solve any application’s requirements.

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