

**REVISIONS**

REV	DESCRIPTION	DATE	APPVL
A	DOCUMENT RELEASED PER EDR# 49537	11/19/99	<i>D. Lockhead</i>

**General Notes:**

THE FOLLOWING STI SPECIFICATIONS APPLY:

50-04100-013: **Specification for Supplier Packaging and Labeling Requirements**

**ORIGINAL**



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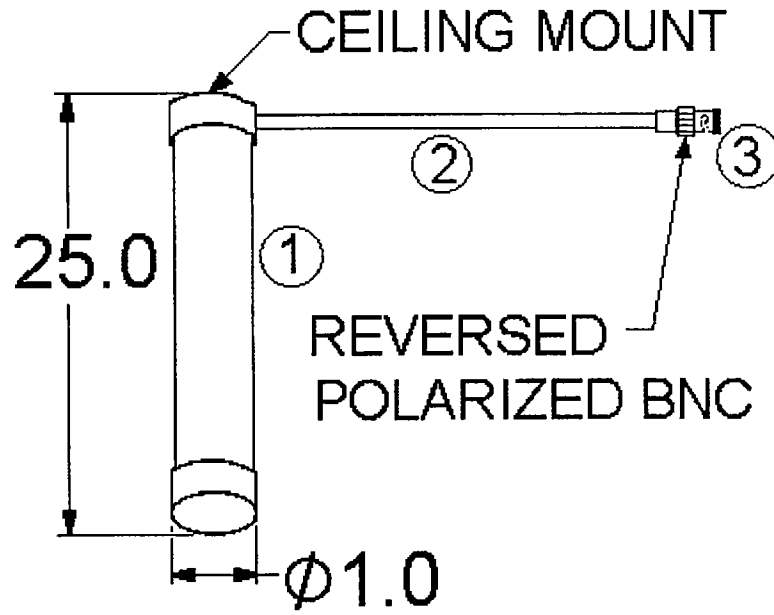
APPROVAL	NAME	DATE	COMPONENT SPECIFICATION	
DRAWN	M. TORINESE <i>MT</i>	11/19/99	<b>ANT:OMNI, 2.4-2.5GHz,7dBi,W/CBL, W/REV BNC,OPTIONAL PLENUM</b> DOC. NO. 50-11902-XXX	
CHECKED	D. PETRY <i>D. Lockhead</i>	11/19/99		
ENG.	S. LOCKHEAD	11/19/99		
CEG	T. SMURA <i>T. Smura</i>	11/22/99		
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## OMNIDIRECTIONAL ANTENNA ASSEMBLY

Enclosure Material:	Ultraviolet-stabilized Polycarbonate
Mount Style:	Ceiling
Performance:	Omnidirectional
Frequency:	2.4 - 2.5 GHz
Gain:	7 dBi
Bandwidth (1.5:1):	100 MHz
-3dB bmwidth:	65 E-Plane <sup>o</sup>
Weight:	1.1 lb. Max
W/sur Area:	.122 ft <sup>2</sup>
W/survival:	45 mph
Power:	50W
Operating Temperature:	-30°C - 70°C

**Note:**

Common Specifications: VSWR - 1.5:1 nominal; Connector Type -N-female; Element material - printed circuit



DRAWING NOT TO SCALE

<b>TABULATION:</b>	50-11902-XXX	XXX = Cable Length in Inches
<b>OPTIONS:</b>	Plenum Rating <sup>1</sup>	Add "P" to Part Number (Rating applies to Cable not Antenna)
	Color	Add single character for color, e.g. Y = Yellow, Without color is white
	Private Label	Add "S" for private label.
<b>EXAMPLE:</b>	50-11902-048P	048 = 48 Inches or 4 FT., P = with Plenum Rating

Note:

1. Modified Steiner Tunnel Flame Test (UL-910). Plenum is a closed area, such as between drop ceiling and true ceiling. With rating coax can be run in plenum without conduit.

ITEM	PART#	QTY	DESCRIPTION
1	S2406BH	1	CUSHCRAFT/Signals Omnidirectional Antenna
2	N/A	1	Coaxial Cable (RG58)
3	50-12100-093	1	Reversed Polarized Female BNC Connector

Dimensions are in inches unless otherwise noted

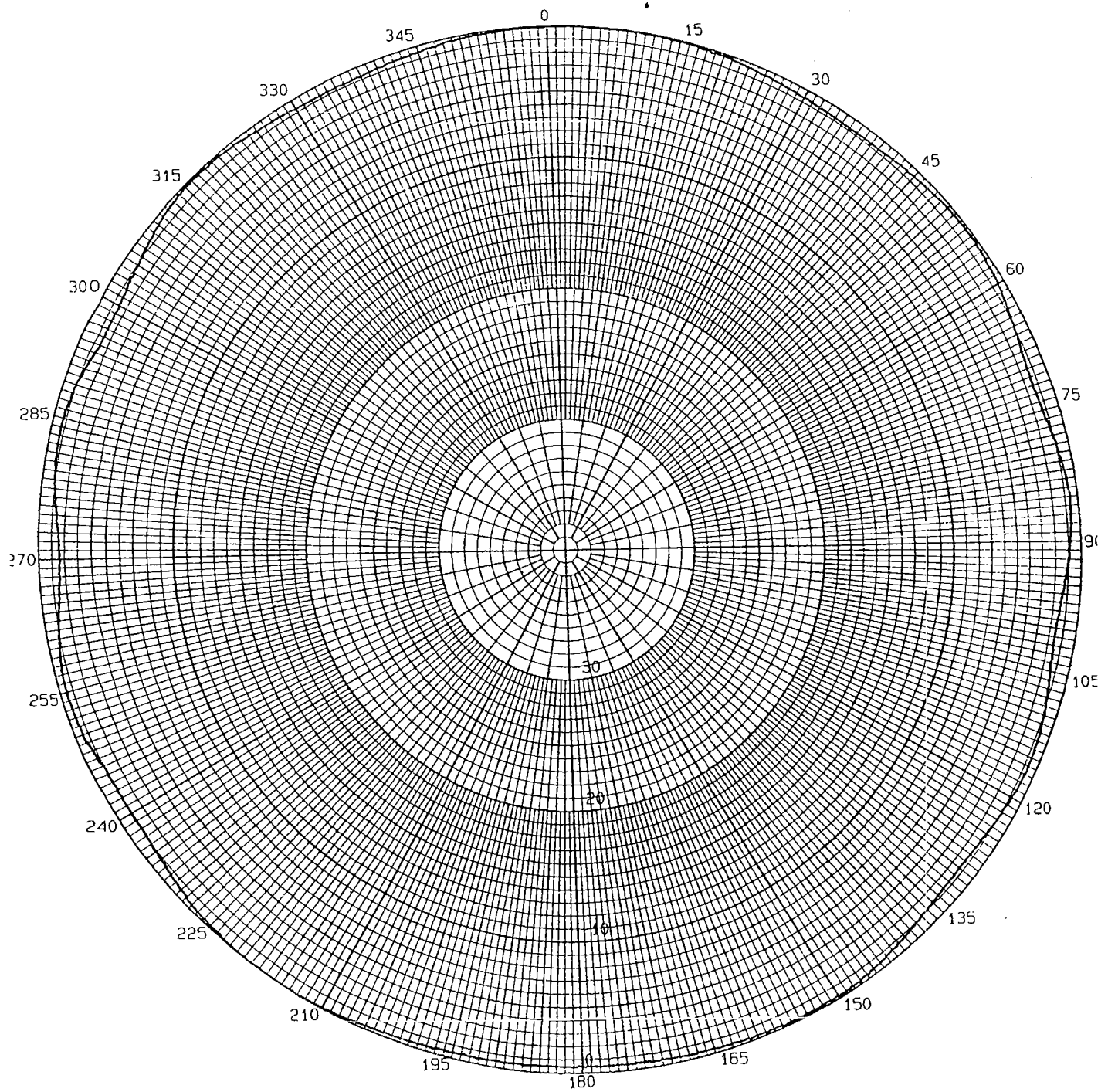
SYMBOL TECHNOLOGIES, INC.

DOCUMENT No.50-11902-XXX

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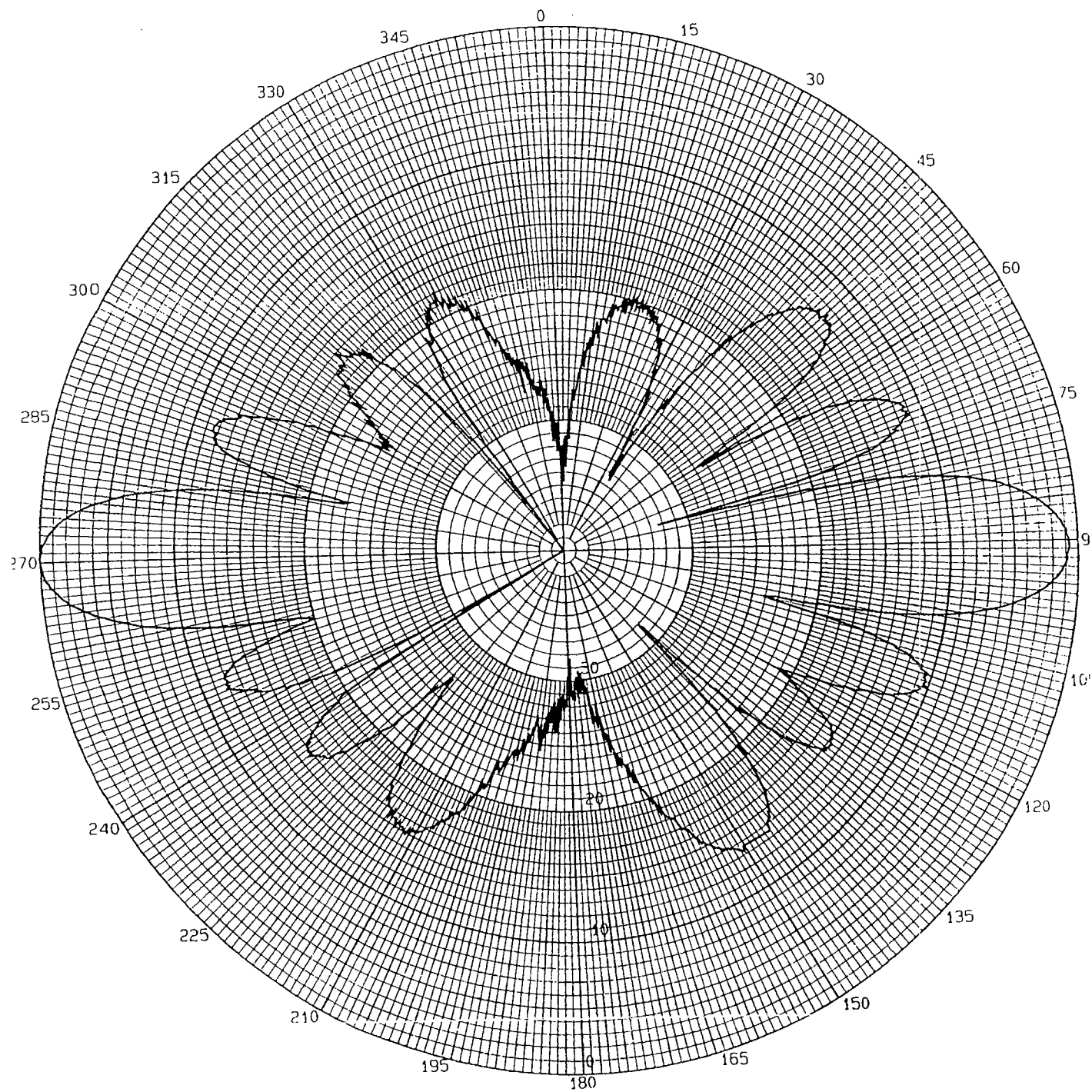
**Typical Radiation Pattern**  
**Freq: 2.45 GHz**  
**Polarization: H- Plane**



Magnitude dB Vs. Azimuth

Data: \_\_\_\_\_

**Typical Radiation Pattern**  
**Freq: 2.45 GHz**  
**Polarization: E-Plane**



Magnitude dB Vs. Azimuth

Data: \_\_\_\_\_

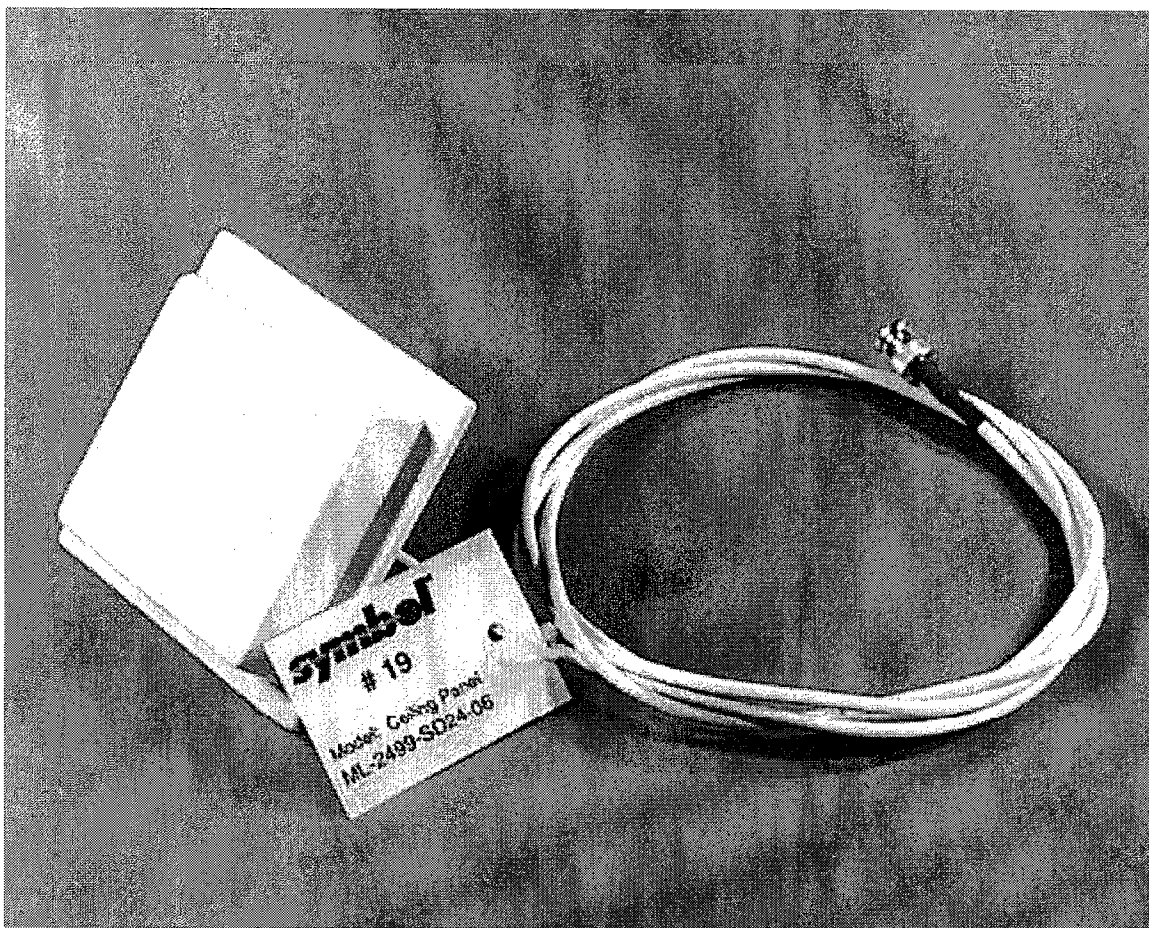
## Ceiling Panel Antenna

The **Ceiling Panel** antenna is 1.8 dBi omnidirectional in azimuth plane. The **Plane** uses a reverse polarity BNC connector. It is mounted on a horizontal surface. In its use it would be mounted on a ceiling farther than 20 cm from a person's body. It is used with mobile devices.

The following RF exposure information is included in a prominent place in the device's user manual to inform the user of safety issues as required by OET Bulletin 65, Supplement C whenever the device configuration could reduce the MPE distance to be less than 20 cm.

<i>Location</i>	Horizontal Surface
<i>Pattern</i>	Omni
<i>Type</i>	Plane
<i>Max Gain</i>	1.8 dBi
<i>Physical</i>	See attached dwg
<i>Cable</i>	6 ft (Plenum-rated)
<i>Symbol PIN</i>	ML-2499-SD24-00
<i>MPE Distance</i>	See summary table

**“Important Note: To comply with FCC RF exposure requirements, no one may remain within 20 cm of the antenna for extended periods of time.”**



Antenna Photograph



Ceiling Configuration

**Trilogy AP**

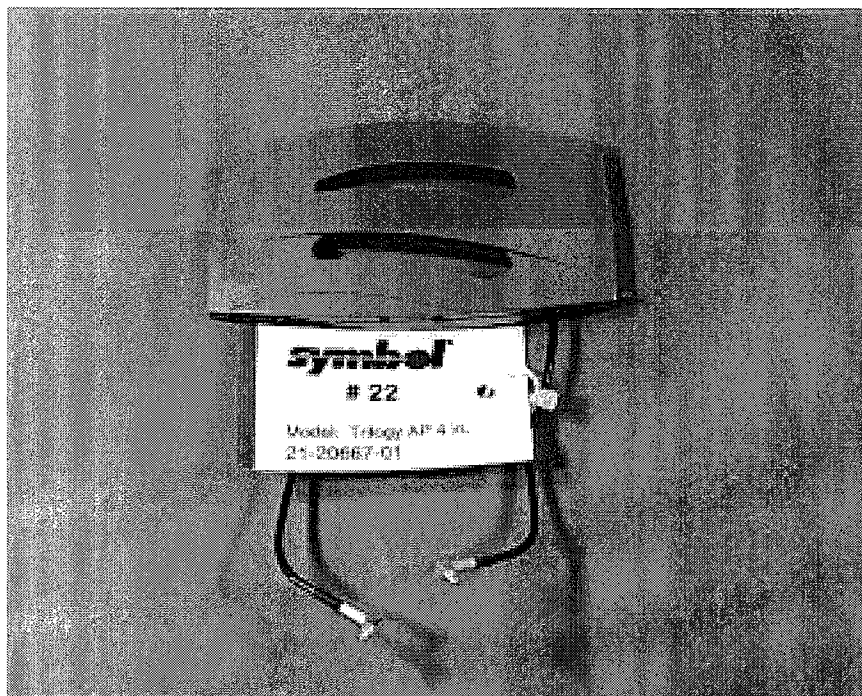
The Trilogy AP antenna is two sleeved dipole antennas for spatial diversity mounted in an integrated molded housing that mounts to the 11 Mbps series of Access Points. The gain is less than 2 dBi in all planes. The antenna assembly flips up or down to accommodate the access point mounting method of either a horizontal

<i>Location</i>	Table Top, Wall Mount
<i>Pattern</i>	Omni
<i>Type</i>	Spatial Diverse Dipoles
<i>Max Gain</i>	2 dBi
<i>Physical</i>	See attached dwg.
<i>Cable</i>	4.5" min
<i>Symbol PIN</i>	21-20667-XX

or vertical surface. The antenna can swivel to maintain its vertical orientation. This antenna can also be mounted in a plastic base with a longer cable for use with a Spectrum 24 PCI computer card. The antenna will, in this usage clearly will be more than 20 cm from the user and so, be classified as a mobile antenna.

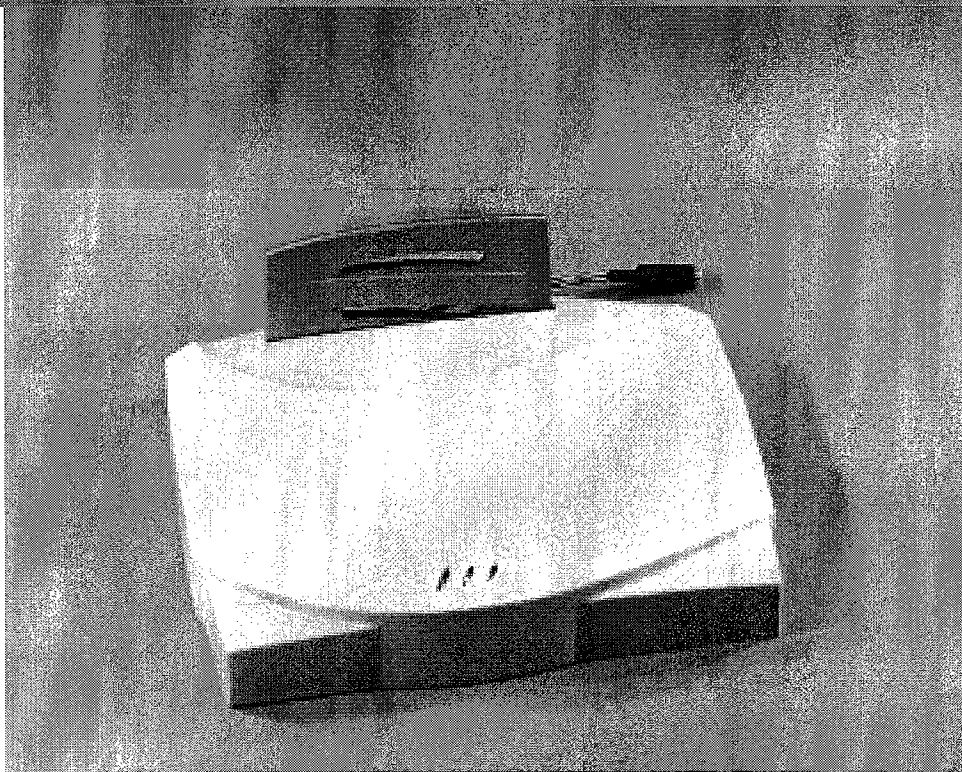
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**“Important Note: To comply with FCC RF exposure requirements, no one may remain within 20 cm of the antenna for extended periods of time.”**

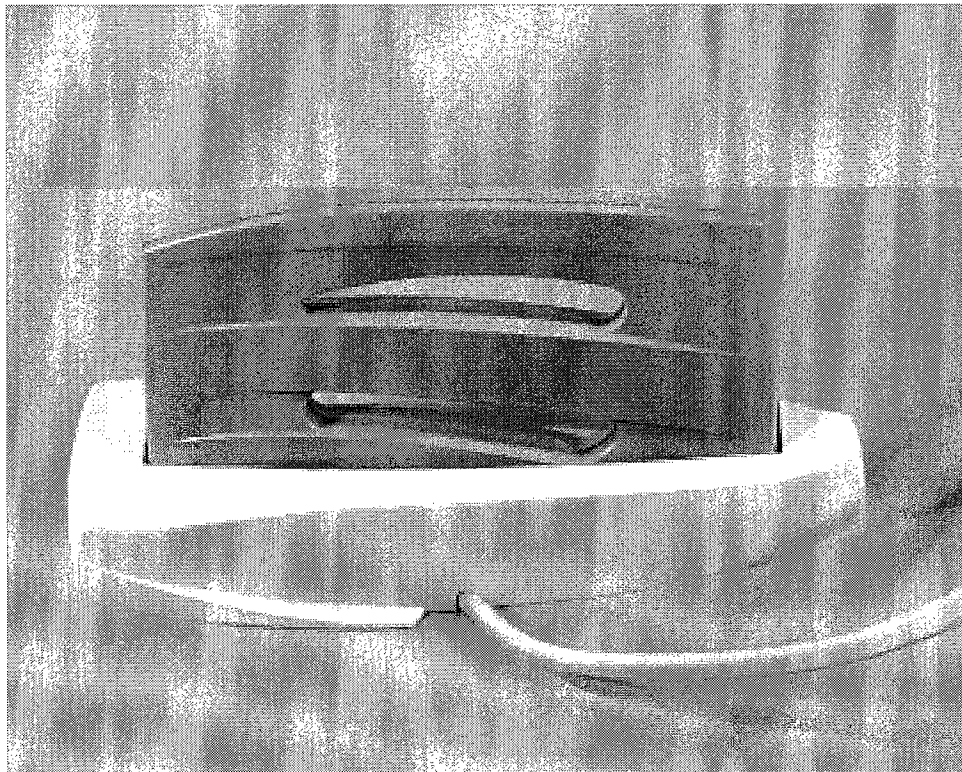


Antenna Installed in Flip up holder





Access point table top configuration



Remote bracket holder.