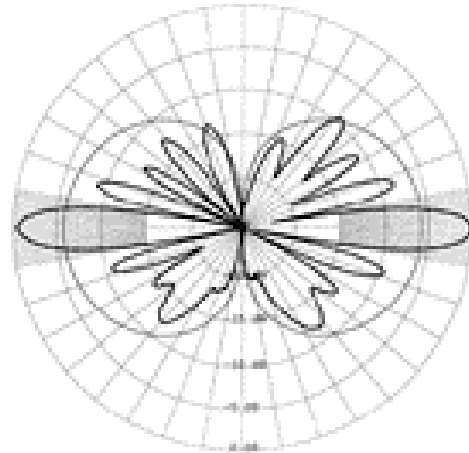


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ANT-OMNI-8 2.4 GHz 8 dB Omni Antenna



Radiation Pattern

Advantage

Performance

The **ANT-OMNI-8** is a very compact yet high performance Omnidirectional antenna designed for the 2.4 GHz ISM band. It is ideally suited for multipoint and mobile applications where high gain and wide coverage is desired.

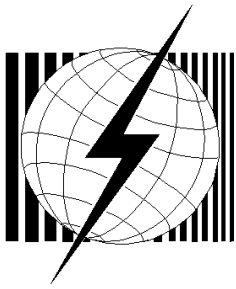
Rugged and Weatherproof

This antenna's construction features a lightweight fiberglass radome for durability and aesthetics. It's mounting system features a heavy-duty extruded aluminum bracket and stainless steel U-Bolt for superior strength.

Specification

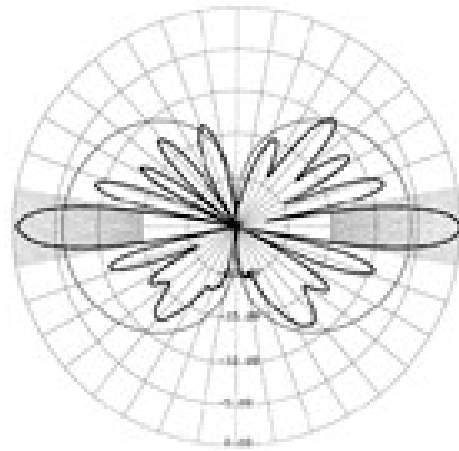
Electrical		Mechanical	
Frequency:	2400 ~ 2500 MHz	Connector:	N Female
Gain:	8dB	Length:	16"
Impedance:	50 Ohms	Weight:	<1.5klbs.
VSWR:	1:1.5Max	Mounting:	2.3/8" dia. Mast max
Power:	100 Watts	Radome	
Vertical		Material:	Fiber glass
Bandwidth:			

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ANT-OMNI-9 2.4 GHz 9 dB Omni Antenna



Radiation Pattern

Advantage

Superior Performance

The **ANT-OMNI-9** High-Performance Omnidirectional Antenna features 9 dBi gain for medium and long-range multipoint applications in the 2.4 GHz ISM band.

Rugged and Weatherproof

This antenna's construction features a lightweight fiberglass radome for durability and aesthetics. It's mounting system features two heavy duty extruded aluminum brackets and stainless steel U-Bolts for superior strength in any weather conditions.

Specification

Electrical

Frequency: 2400 ~ 2500 MHz
Gain: 9dB
Impedance: 50 Ohms
1:1.5Max
Power: 100 Watts
Vertical
Bandwidth:

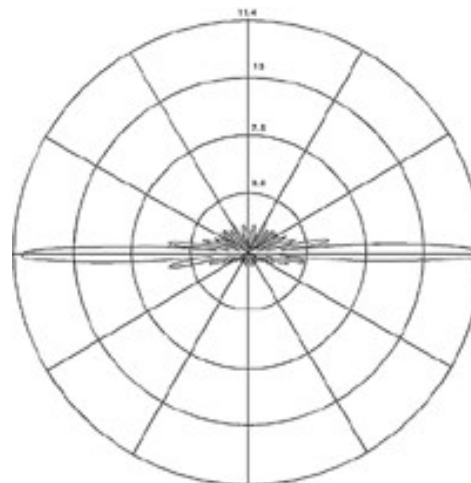
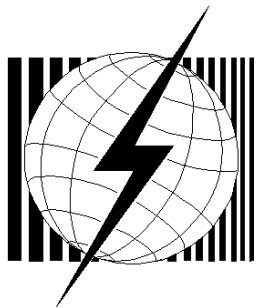
Mechanical

Connector: N Female
Length: 1 m(38 in)
Weight: <1.16kg. VSWR
Mounting: 2.5" dia. Mast max
Radome
Material: Fiber glass

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Radiation Pattern

Advantage

Superior Performance

The **ANT-OMNI-12** High-Performance Omnidirectional Antenna features an impressive 12 dBi gain for long-range multipoint applications in the 2.4 GHz ISM band.

Rugged and Weatherproof

This antenna's construction features a lightweight fiberglass radome for durability and aesthetics. It's mounting system features two heavy duty extruded aluminum brackets and stainless steel U-Bolts for superior strength in any weather conditions

Specification

Electrical

Frequency: 2400 ~ 2500 MHz
Gain: 12dB
Impedance: 50 Ohms
VSWR: 1.:1.5Max
Power: 100 Watts
Vertical
Bandwidth:

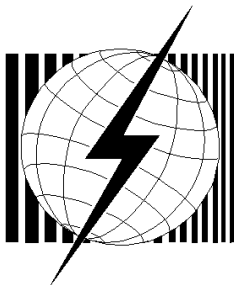
Mechanical

Connector: N Female
Length: 1.78m
Weight: 1.16kg
Mounting: Stainless Steel
Radome
Material: Fiber glass

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ANT-PATCH-12

2.4 GHz 12 dB Gain Patch Antennas

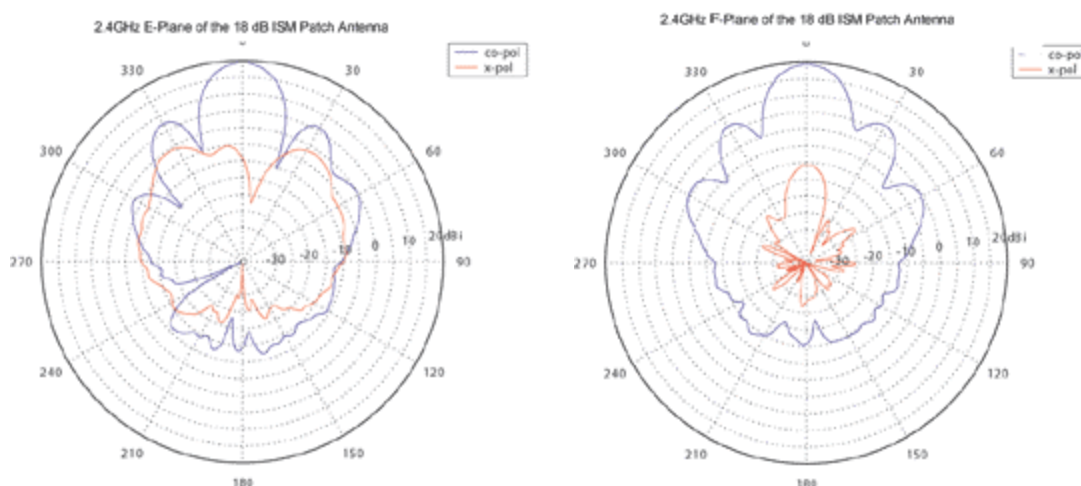
For wireless LAN and ISM band applications

Advantages

Superior performance due to excellent Cross Pole patterns.
Flat design provides high efficiency and low back lobes with minimal depth dimension.
Easy to install Ball Mount Bracket.
Light weight design saves on shipping costs.
Broad beam width option allows wide area coverage.

Electrical		Mechanical	
Gain,	min 12 dB	Weight (+ mount)	2 lb
Horizontal beamwidth	38 °	Width – in (cm)	8.5 (21.6)
Vertical beamwidth	38 °	Height – in (cm)	8.5 (21.6)
Front/Back Ratio	>30dB	Depth – in (cm)	1.125 (2.8)
Polarity	Linear	Lateral thrust@100MPH	10 (22)
VSWR	1.5:1	Torsional moment @100MPH	(m/kg) 0.2 (0.22)
		with Standard Mount-ft/lbs	72 (466)
Cross polarization	>30dB	Wind loading –in2 (cm2)	
Input Power	100 Watts		
Connector	N Female		

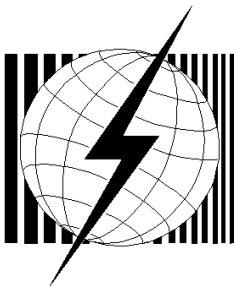
2.4GHz E-Plane & H-Plane plot of the 12 dB ISM Panel Antenna



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ANT-P2413

2.4 GHz 13 dB Gain Patch Antenna

Description:

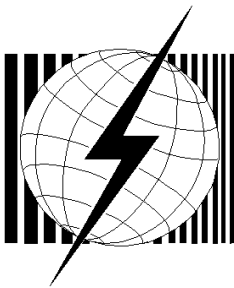
Electrical		General	
Frequency Range	2.4-2.5 GHz	Type	Subscriber
Transmit Gain	13 dB (Min.)	Regulatory Compliance	EN 302 085 v1.1.1 (1999) ETS 300 019 part 1-4
3 dB BW Azimuth	33 ° (nom.)		
Elevation	32 ° (nom.)	Environmental & Mechanical	
Polarization	Linear (vertical or horizontal)	Connector	N-Type Female
VSWR	1.5: 1 (max.)	Operating Temperature	- 40 °C to + 65 °C
Sidelobes	TS2	Antenna Dimensions	7.5 x 7.1 x 1.19 Inches
Cross Polarization	-15 db (max)	Antenna Weight	1.45 Lbs
Ft/B Ratio (max)	-20 db (max)	Wind Load (survival)	137.5 Miles/Hr
Lightning Protection	DC Grounded	Radial Ice Load	1 Inch radial

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ANT-P2415

2.4 GHz 15 dB Gain Patch Antenna

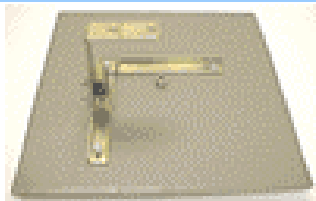
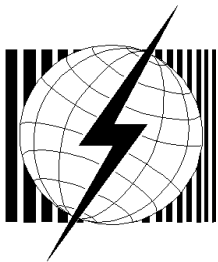
Description:

Electrical		General	
Frequency Range	2.4-2.48 GHz	Type	Subscriber
Transmit Gain	15.5 dBi Min.	Regulatory Compliance	ETSI-EN 301 525V.1.1.1 2000-06
3 dB BW Azimuth	20 ° (Typical)		
Polarization	LINEAR	Environmental & Mechanical	
Power	2 W	Connector	N-Type Female
VSWR	1.5: 1 (max.)	Operating Temperature	- 40 °C to + 71 °C
Input Impedance	50 Ohms	Antenna Dimensions	12 x 12 x 1.97 Inches
Ft/B Ratio (max)	26 dB min	Antenna Weight	3.12 Lbs
Lightning Protection	DC Grounded	Radome	Plastic, gray polycarbonate
		Base Plate	Aluminum

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ANT-PATCH-18 2.4 GHz 18 dB Gain Patch Antennas

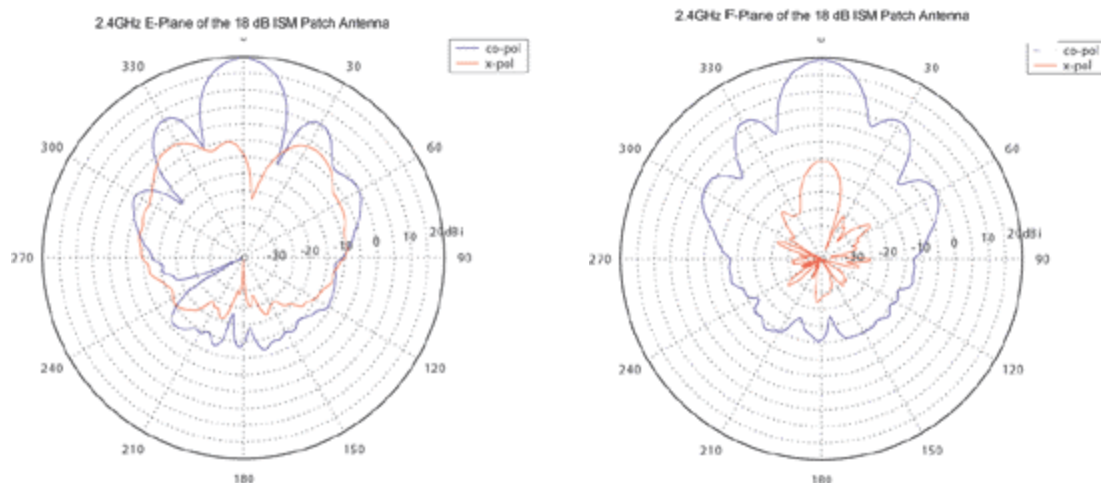
For wireless LAN and ISM band applications

Advantages

Superior performance due to excellent Cross Pole patterns.
Flat design provides high efficiency and low back lobes with minimal depth dimension.
Easy to install Ball Mount Bracket.
Light weight design saves on shipping cost.
Broad beam width option allows wide area coverage.

Electrical		Mechanical	
Gain:	min 18dB	Weight (+ mount) :	4 lb
Horizontal beamwidth:	18 °	Width – in (cm) :	15.5 (39.4)
Vertical beamwidth:	18 °	Height – in (cm) :	15.5 (39.4)
Front/Back Ratio:	>30dB	Depth – in (cm) :	1.125 (2.8)
Polarity:	Linear	Lateral thrust@100MPH:	15 (33)
VSWR:	1.5:1	Torsional moment @100MPH	
		with Standard Mount-ft/lbs:	(m/kg) 0.4 (0.88)
Cross polarization:	>30dB	Wind loading –in2 (cm2):	240 (1552)
Input Power :	100 Watts		
Connector :	N Female		

2.4GHz E-Plane & H-Plane plot of the 18 dB ISM Panel Antenna



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2.45 GHz Panel Antennas

Features

- Complete line of planar antennas
- Flat design provides high efficiency and low back lobes with minimal depth dimension
- Allowed in covenant controlled areas
- Easy installation saves time and money
- Mounting brackets included
- Protected from the environment (ice loading and wildlife)
- Supports all applications from 2.4 to 2.5 GHz (ISM, Home RF, 802.11b,  Bluetooth™).



Specifications

Electrical (typical)

Frequency
Gain
Polarization
Antenna design
Bandwidth - 1.5:1 VSWR
Horizontal beamwidth
Vertical beamwidth
Cross polarization
Maximum power input watts
Front-to-back ratio
Efficiency
Connectors

Lightning protection

Mechanical

Width - in (cm)
Height - in (cm)
Depth - in (cm)
Case material

Case color
Wind/ice loading area - in² (cm²)
Lateral thrust @100 mph - lbs (kg)
Torsional moment @ 100 MPH with
standard mounting - ft/lbs (m/kg)

Panel 13dBi

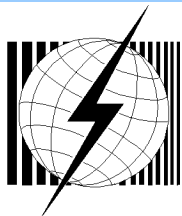
2.45 GHz
13dBi
Linear
Four patch
100 MHz
38°
38°
>30dB
100
>30dB
75%
SMA female,
TNC female,
N female
Direct ground

Panel 19dBi

2.45 GHz
19dBi
Linear
Sixteen patch
100 MHz
18°
18°
>30dB
100
>30dB
70%
N female

Direct ground

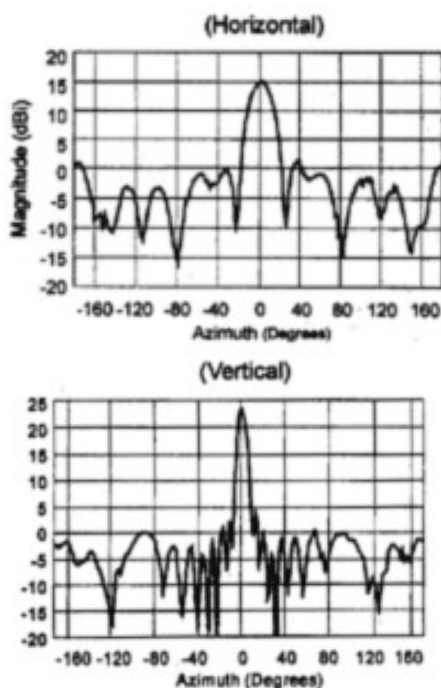
8.5 (21.6)	15.5 (39.4)
8.5 (21.6)	15.5 (39.4)
1.125 (2.8)	1.125 (2.8)
High impact UV stabilized plastic, ultrasonically welded	High impact UV stabilized plastic, ultrasonically welded
Gray, other colors available on customer order	
72 (466)	240 (1552)
10 (22)	15 (33)
0.2 (0.22)	0.4 (0.88)



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ANT-RFLCTR-18

2.4 GHz 18 dB Gain
Grid Antenna



Feature

Superior Performance

The **ANT-RFLCTR-18** Reflector Grid Antenna provides 18 dBi gain with a 12° beam-width for directional applications. It can be installed for either vertical or horizontal polarization.

Rugged and Weather-Proof

This antenna's construction features a Cast Magnesium Alloy reflector grid for superior strength and light weight.

Specification

Electrical

Frequency:	2400 ~ 2500 MHz
3 dB Beam Width:	12 °
Gain:	19 dB
Cross Polarization Rejection:	<19dB
VSWR:	<1.5:1
Max Input Power:	50 Watts
Impedance:	50 Ohm

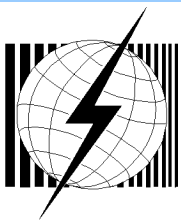
Mechanical

Connector:	N Female on 24" RG8
Size:	6.7 X 23.6 inches
Weight:	3.9 lbs
Elevation Angle:	0 to +15°
Grid Finish:	Gray UV Powdercoat
Mounting:	1.0"-1.5" Dia. Mast
Grid Material:	Welded Steel

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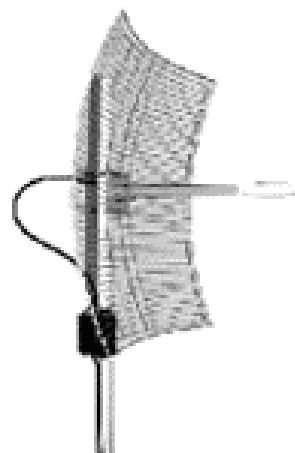
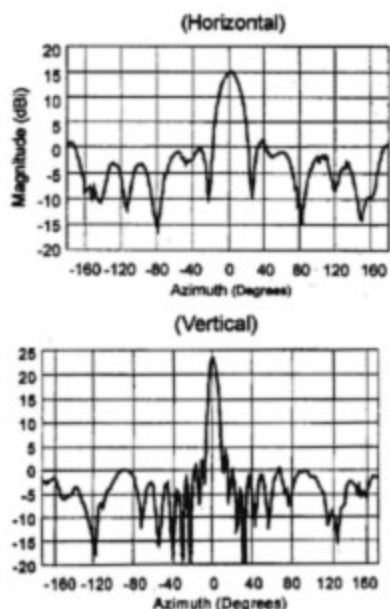
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ANT-RFLCTR-24

2.4 GHz 24 dB Gain
Grid Antenna



An ideal solution for high gain requirements at 2.4 GHz. These rugged, rust free, narrow beam antennas will deliver a clean radiation pattern at very moderate price.

Advantages:

- Made of Magnesium alloy, which is superior to anodized aluminum and weighs 33% less.
- Low wind resistance.
- Die-cast manufacturing process provides unmatched uniformity resulting in consistently high performance from every antenna.
- Easily installed for either horizontal or vertical polarization.
- Compact packaging saves shipping cost.

Specification

Electrical

Frequency: 2400 ~ 2500 MHz
 3 dB Beam Width: 7.5 °
 Front to Back Ratio: >31dB
 Polarization: Horizontal or Vertical
 VSWR: 1.3:1
 Power: 50 Watts
 Impedance: 50 Ohms
 Wind Loading: 97 lb. @ 100 MPH
 199 lb. @ 140 MPH

Mechanical

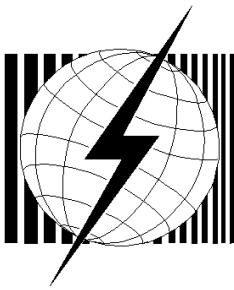
Connector: N Female on 24" RG8
 Size: 23.5 X 39.25 X 15 inches
 Weight: 5.4 lb.
 Reflector material: Cast Magnesium Alloy
 Mounting: Stainless Steel

Elevation Adjustment 60° in 10° increments

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ANT-D2421

20.5 dB Gain Dish Antenna

Description:

Electrical		General	
Frequency Range	2.4 GHz – 2.5 GHz	Connector	N-Type Female
Transmit Gain	20.5 dB (Min.)	Dish Wind Resistance	88 Miles
3 dB BW Azimuth	13.75 ° (nom.)	Feed	Waterproof
Front to Back Ratio (F/B Ratio)	33 dB (nom.)	Environmental & Mechanical	
Front to Side Ratio (F/S Ratio)	23 dB (nom.)	Feed Mounting	1.6 Inches
Polarization	Linear, Vertical	Actual Reflector Diameter	23.6 X 26.4 Inches
VSWR	Less than 1.5:1	Dish Focal Length	13.6 Inches
1 st Side Lobe Level	-20 dB (nom.)	Dish F/D Ratio	0.64
Feed Power Handling	100 W	Dish Weight	3.6 Lbs
Nominal Input Impedance	50 ohms	Dish Mount Weight	1.45 Lbs
		Dish Material	Zincor Steel

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