

LB-58160-20-C-ENF Multi Octave Horn Antenna 5.8-16GHz 20dB Gain
Endlaunch N Type Female



Multi Octave Horn Antenna Operating From 5.8GHz to 16GHz With a Nominal 20dB Gain With Endlaunch N Type Female Connector

Product Information

SKU	LB-58160-20-C-ENF
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Description

Multi octave horn antenna LB-58160-20-C-ENF, operating from 5.8 to 16GHz with a nominal 20dB gain and low VSWR 1.5:1 with Endlaunch N Type Female output connector. The model LB-58160-20-C-ENF has uniform gain through its frequency span, providing efficient performance characteristics and directionality. It can handle 150W continuously and 3000W peak power. Constructed of lightweight corrosion-resistant aluminum, the antenna will provide years of trouble-free indoor and outdoor service. This multi octave horn antenna is linearly polarized and ideally suited for EMI testing, direction finding, surveillance, antenna gain and pattern measurements and other applications.

Technical Specification

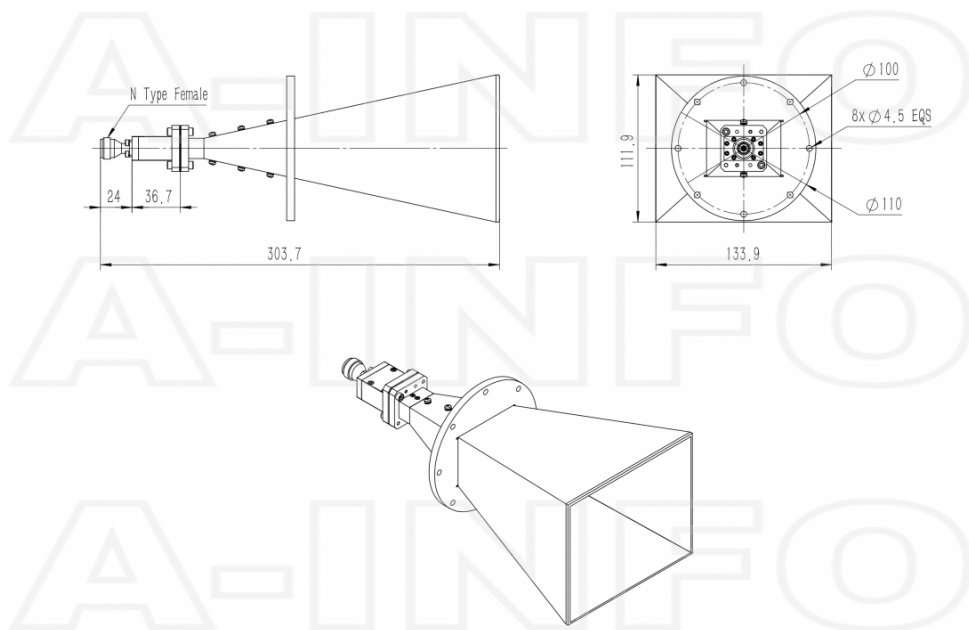
Electrical Specification		Interface	
Frequency, Min (GHz)	5.8	Output Type	Coaxial
Frequency, Max (GHz)	16	Connector	N Type
Waveguide Type	Double Ridge	Connector Gender	Female
Waveguide Size EIA WRD	WRD580	Mechanical Specification	
Gain, Typ (dBi)	20	Figure	C Type
Polarization	Linear	Body Material	Al
3dB Beamwidth, E-Plane, Min (Deg.)	7	Finish	Passivation and Chemical Conversion Coating, Gray Paint
3dB Beamwidth, E-Plane, Max (Deg.)	26	Size, W (mm)	133.9
3dB Beamwidth, H-Plane, Min (Deg.)	8	Size, H (mm)	111.9
3dB Beamwidth, H-Plane, Max (Deg.)	29	Size, L (mm)	303.7
Cross Pol. Isolation, Typ (dB)	40	Weight, (kg)	0.76
VSWR, Typ	1.5:1		
Impedance, (Ohm)	50		
Power Handling, CW, (W)	150		
Power Handling, Peak, (W)	3000		

Additional Information

Application	General Purpose Indoor & Outdoor, Fixed	Solution for	Gain Reference Antenna Measurement Far-field Measurement System Intergration
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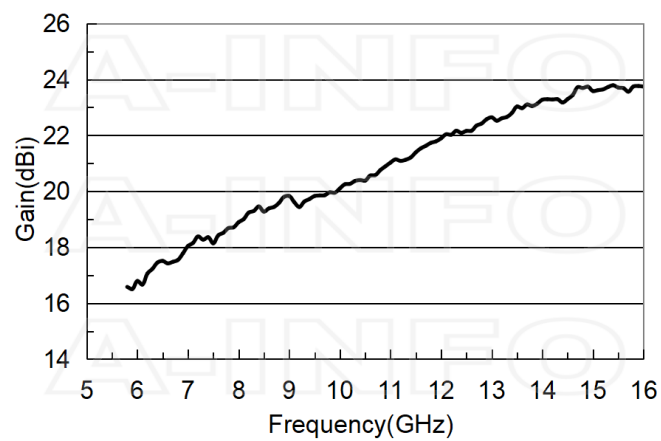
Outline Drawing

Endlaunch N-Female Output (P/N: LB-58160-20-C-ENF)

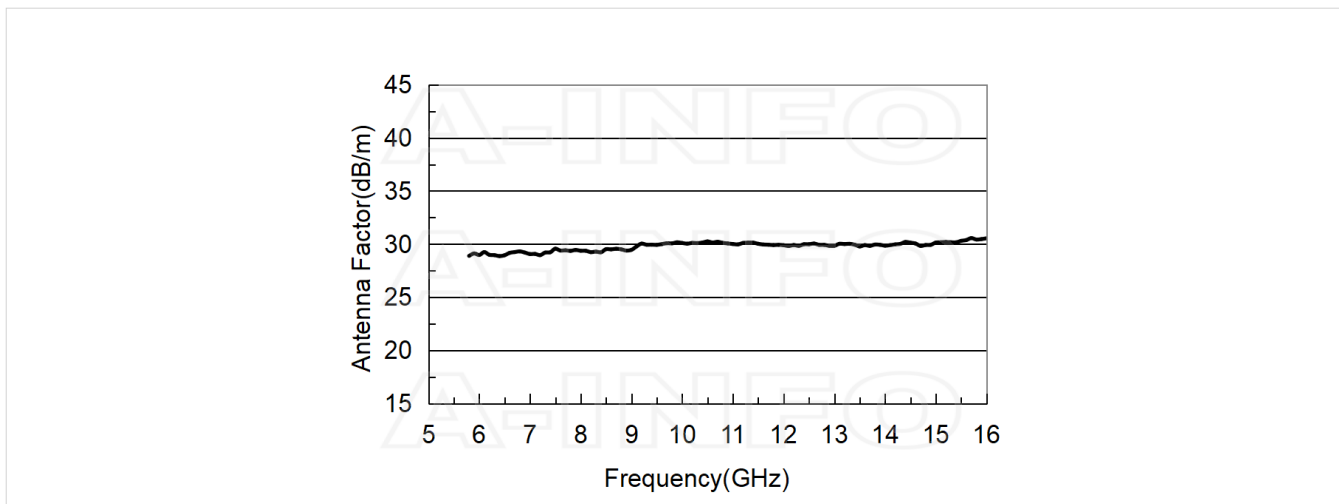


Typical Test Results

Gain



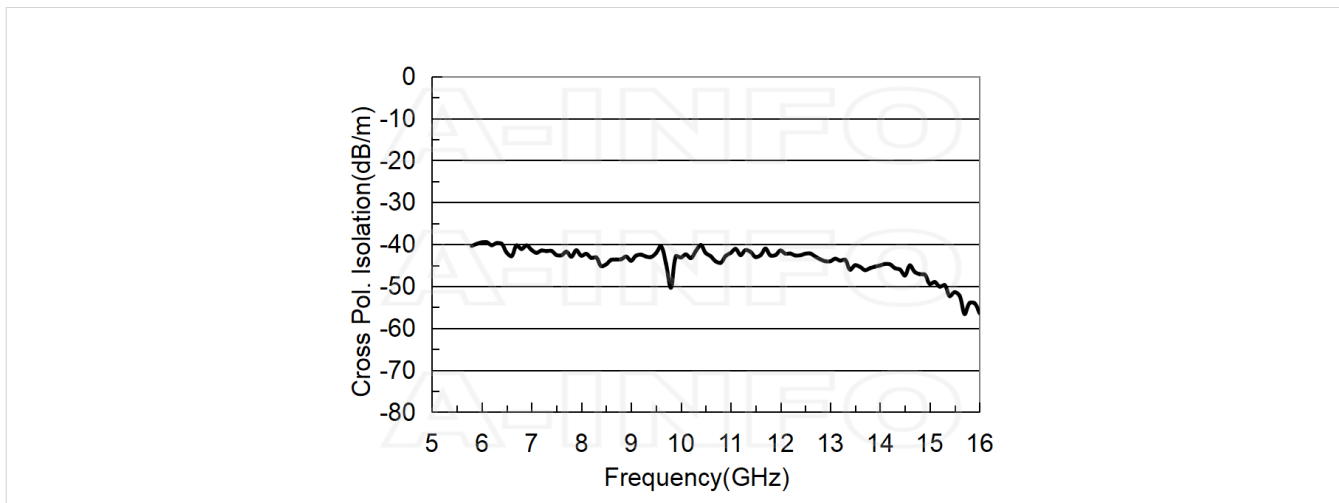
Antenna Factor



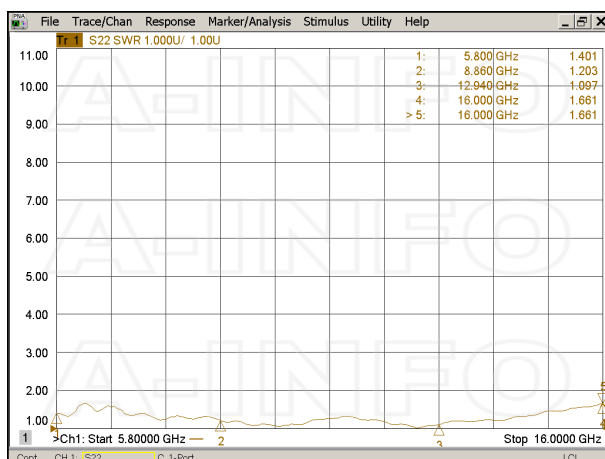
Antenna Factor (Table)

Frequency(GHz)	Gain(dBi)	AF(dB/m)
5.8	16.58	28.90
6.0	16.79	28.98
7.0	18.04	29.07
8.0	18.89	29.38
9.0	19.83	29.46
10.0	20.10	30.11
11.0	21.02	30.01
12.0	21.89	29.90
13.0	22.64	29.85
14.0	23.27	29.86
15.0	23.58	30.15
16.0	23.74	30.55

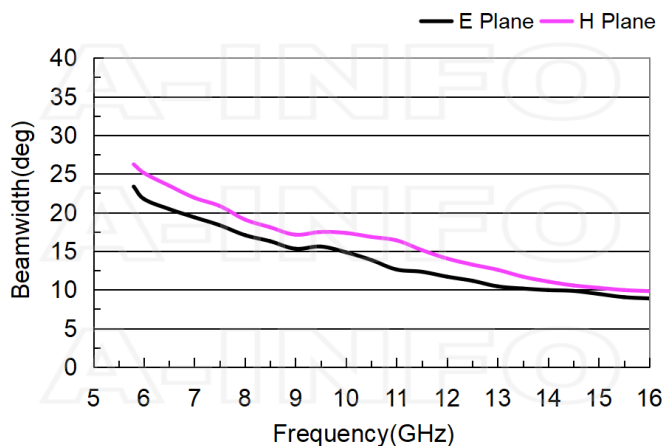
Cross Polarization Isolation



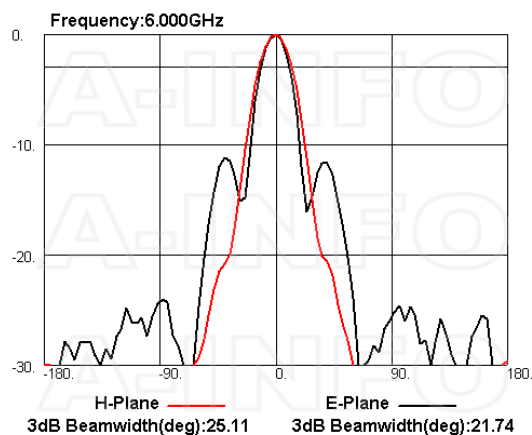
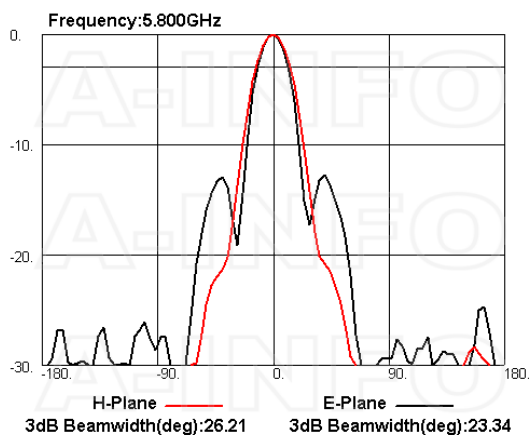
VSWR

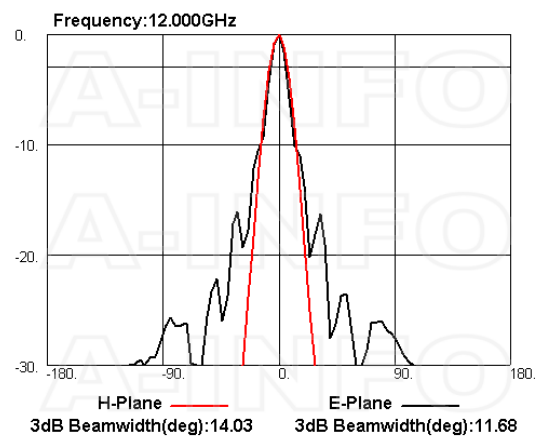
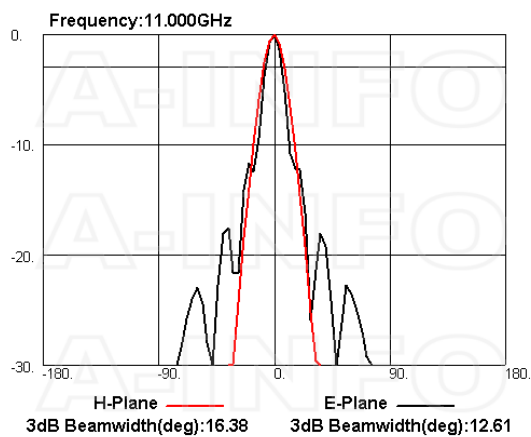
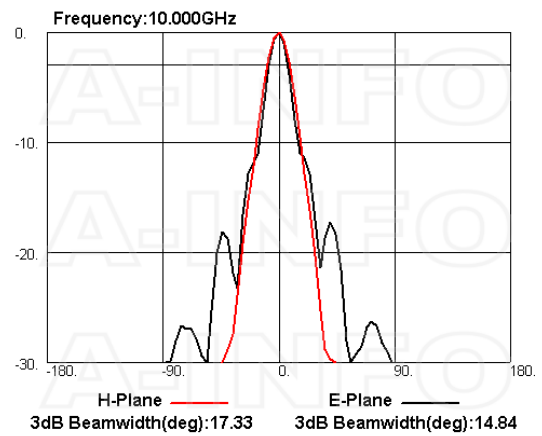
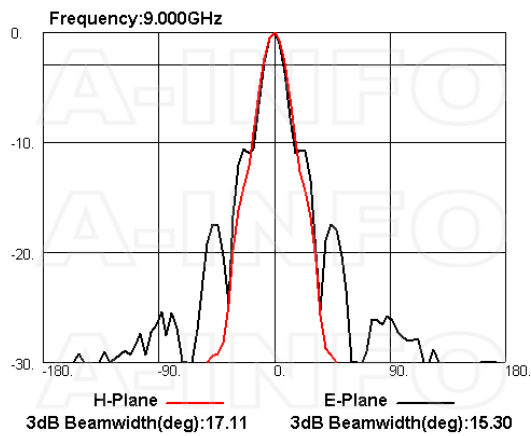
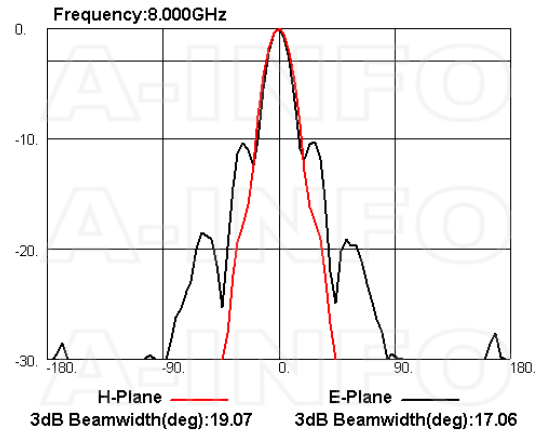
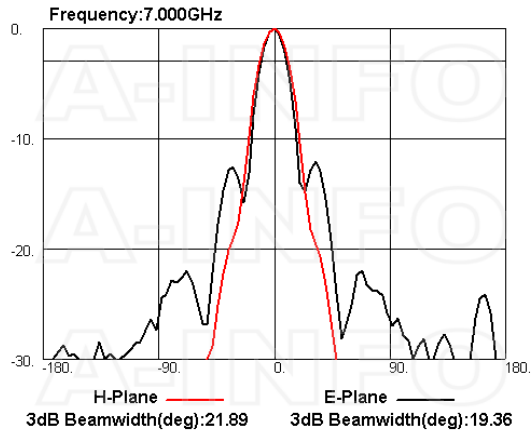


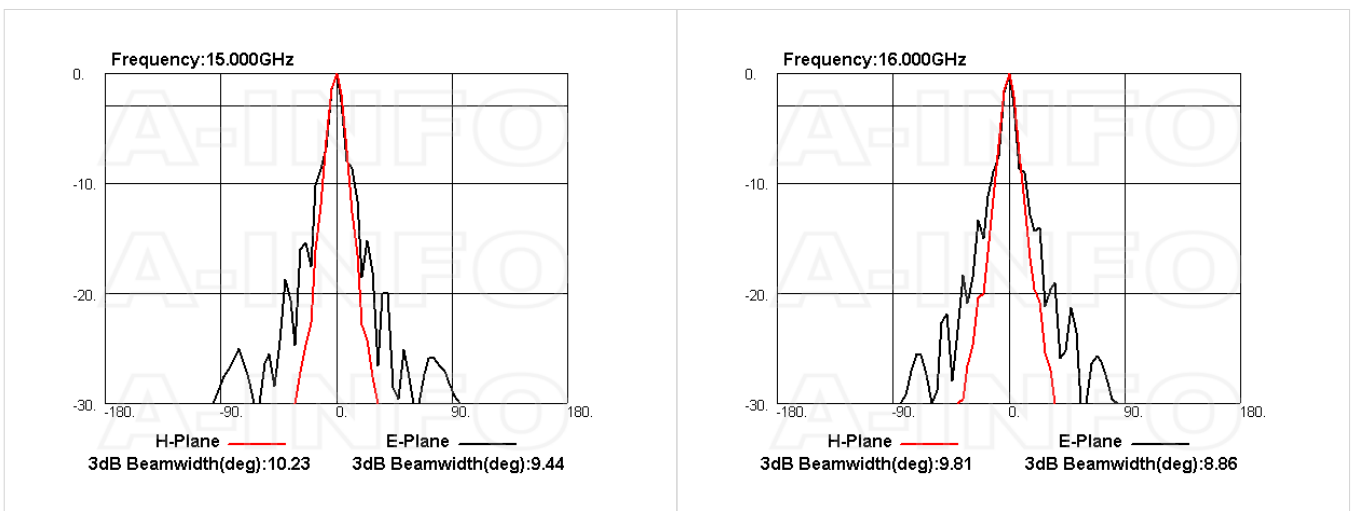
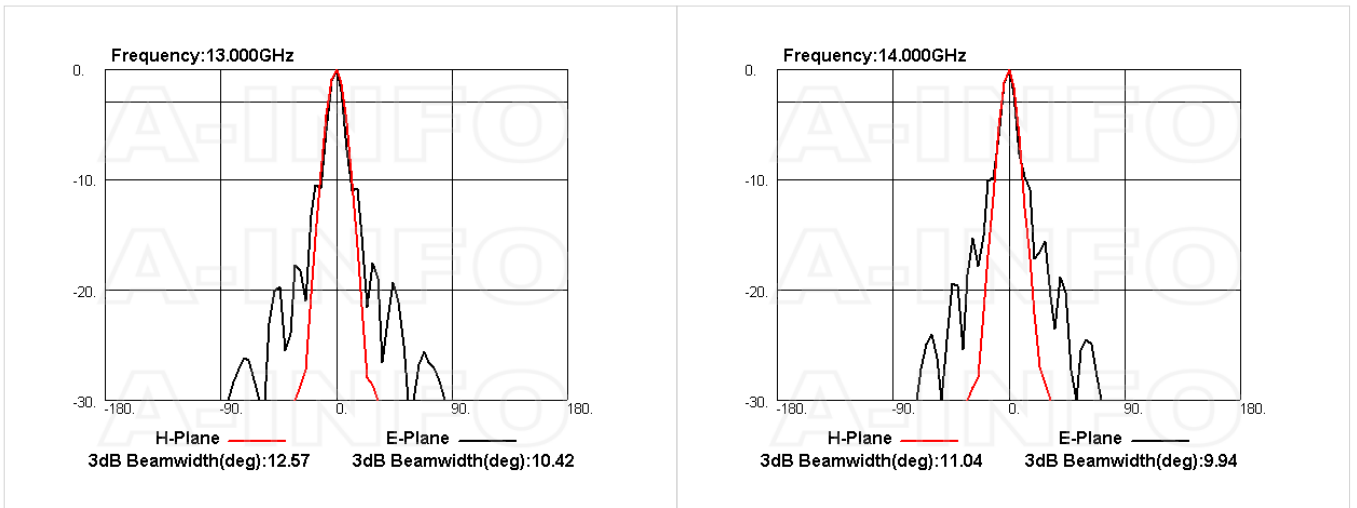
Beamwidth



Pattern







Related Products



LB-51-25-MB2 Round Type Mounting Bracket



LB-51-25-L2 L type mounting bracket



Tripod_15Kg Al Alloy Tripod



3033HL Wooden Tripod



3033QM Wooden Tripod
Metalfree



NM-NM-A050-1000 Flexible
Cable Assembly 1000mm DC-
18GHz N Male to N Male



NM-NM-A050-1500 Flexible
Cable Assembly 1500mm DC-
18GHz N Male to N Male



NM-NM-A050-2000 Flexible
Cable Assembly 2000mm DC-
18GHz N Male to N Male



NM-NM-A050-3000 Flexible
Cable Assembly 3000mm DC-
18GHz N Male to N Male



NM-NM-A050-5000 Flexible
Cable Assembly 5000mm DC-
18GHz N Male to N Male



NM-NM-A050-10000 Flexible
Cable Assembly 10000mm DC-
18GHz N Male to N Male



NM-NM-A050-20000 Flexible
Cable Assembly 20000mm DC-
18GHz N Male to N Male



NM-NM-A100-500 Flexible Cable
Assembly 500mm DC- 18GHz N
Male to N Male



NM-NM-A100-1000 Flexible
Cable Assembly 1000mm DC-
18GHz N Male to N Male



NM-NM-A100-1500 Flexible
Cable Assembly 1500mm DC-
18GHz N Male to N Male



NM-NM-A100-2000 Flexible
Cable Assembly 2000mm DC-
18GHz N Male to N Male



NM-NM-A100-3000 Flexible
Cable Assembly 3000mm DC-
18GHz N Male to N Male



NM-NM-A100-5000 Flexible
Cable Assembly 5000mm DC-
18GHz N Male to N Male



NM-NM-A100-10000 Flexible
Cable Assembly 10000mm DC-
18GHz N Male to N Male



NM-NM-A100-20000 Flexible
Cable Assembly 20000mm DC-
18GHz N Male to N Male

About this Datasheet

<ul style="list-style-type: none"> ● Product Information <p>Product Link: https://www.ainfoinc.com/lb-58160-20-c-enf-multi-octave-horn-antenna-5-8-16-ghz-20db-gain-endlaunch-n-type-female Data subject to change without notice. © A-INFO INC. 2024. All Rights Reserved</p>	<ul style="list-style-type: none"> ● Contact Us <p>Address: 60 Tesla, Irvine, CA 92618, USA</p> <p>Website: www.ainfoinc.com</p> <p>Email: sales@ainfoinc.com</p>	<ul style="list-style-type: none"> ● Phone & Fax <p>Phone: +1-949-639-9688 +1-949-639-9608</p> <p>Fax: +1-949-639-9670</p>
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