



Broadcast Antenna & Service Guide



Multiple Solutions
Various Patterns and Gain
Coaxial, Dipole and Patch Designs

www.alivetele.com



Alive Telecom - Variety of Antenna System Solutions

Antenna Development

- Standard and Custom Patterns
- All Tested in House Full Scale Anechoic Chamber
- Specialty and Unique Antenna Opportunities
- Premium Construction 100% Made in the USA

Complete RF System Designs and Services

- System Sweep & Optimization
- Filter Tune
- Refurbished Replacement Passive Components
- Phased Cable Assemblies
- Batwing Feed Line and Power Divider Replacements
- RF Exposure (OET 65) Testing
- Interference Studies
- Distributed Antenna System Design
- Tower Mappings
- Pattern Verifications
- AM/FM IBOC System Analysis
- Microwave Path Cost Analysis and Alignment
- Preventative Maintenance
- Full Turn Key Program Management

Antenna Part Number Nomenclature

ATC-BC Polarization Beam Tilt EL Gain Az PAT – Channel
Ch 45 12 bay Horizontal Wide Cardioid 0.75 BeamTilt
ATC-BCH312C1-45

ATC-BCX Coaxial Slot Antenna



Coaxial Pylon Style Antenna

Horizontal, Vertical, or Circular Polarization

Slot-Cover & Full Radome Available Pressurized

1kW to 32kW Input Power

<1.08 VSWR per 6 MHz Channel

Corporate or End Fed

4 to 32 Bay Designs

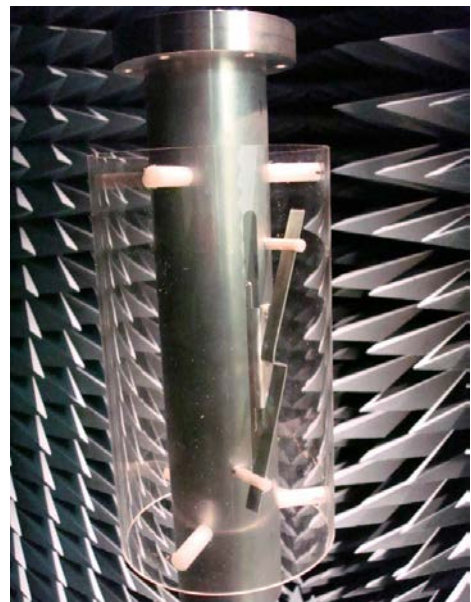
0.75 Degree Beam Tilt Standard

7/8" 1-5/8" 3-1/8" 50 ohm EIA Input

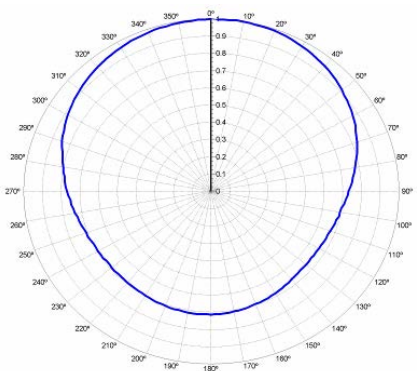
6" Input required for 32 kW Power Handling

Tower Top or Side Mount

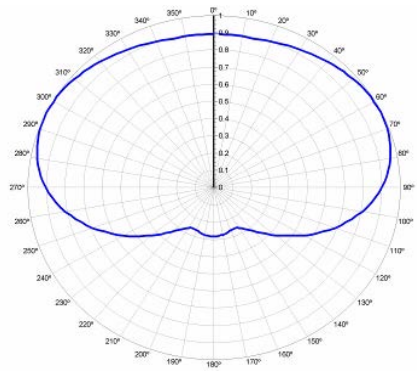
Variance of Standard Products Available
Upon Request



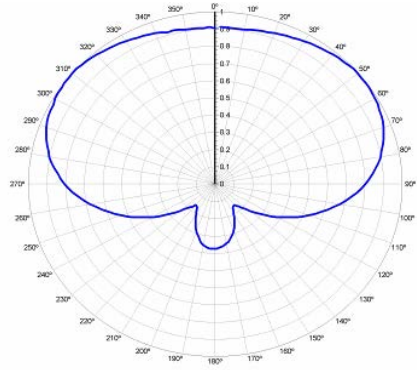
Azimuth Patterns



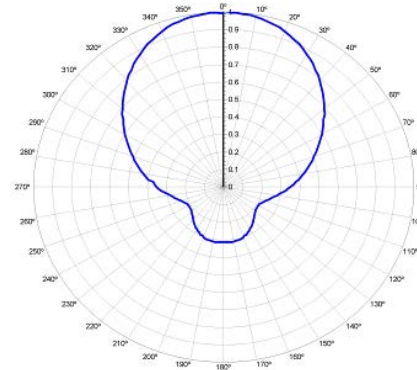
Omniod 1.8 dBd



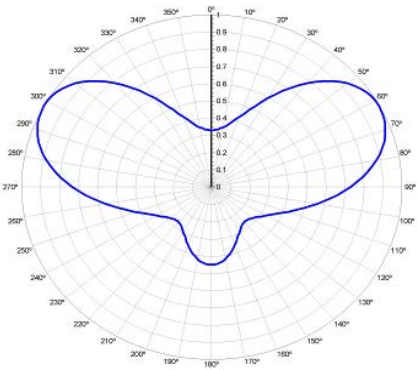
C1 2.34 dBd



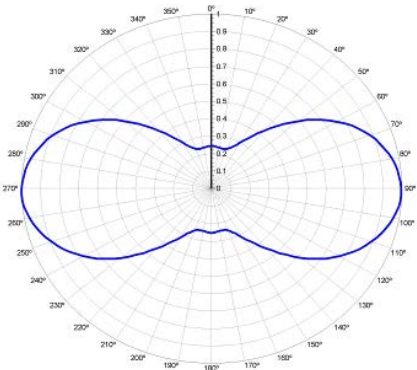
C2 2.7 dBd



C3 4.9 dBd



B1 4.2 dBd



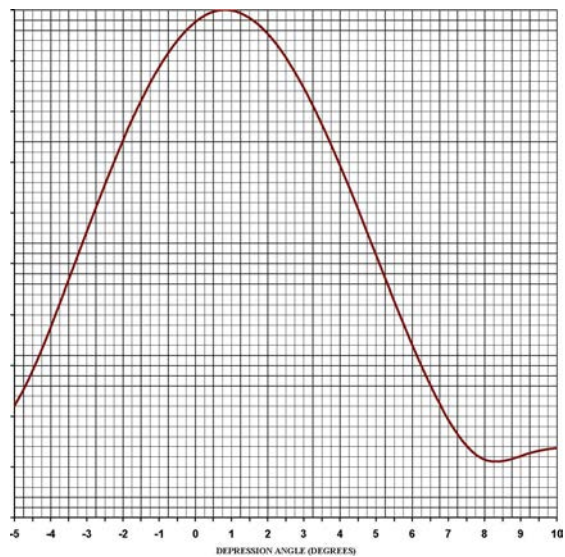
P1 3.9 dBd



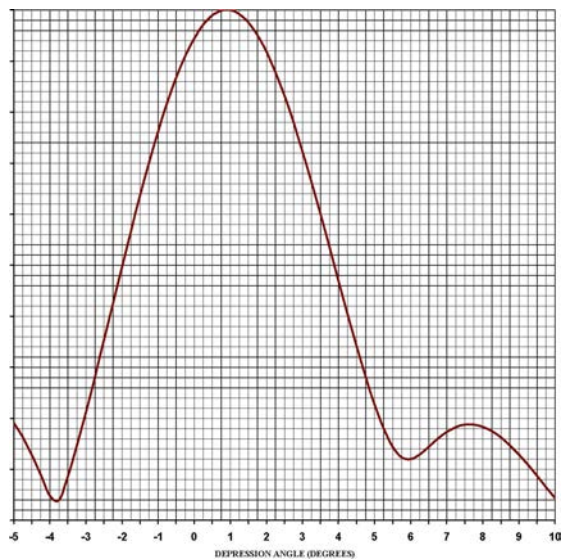
Omni-Directional and Custom
Patterns Available



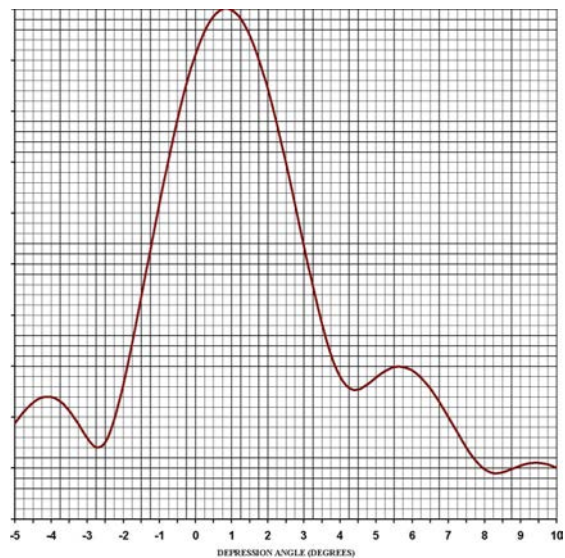
Elevation Patterns



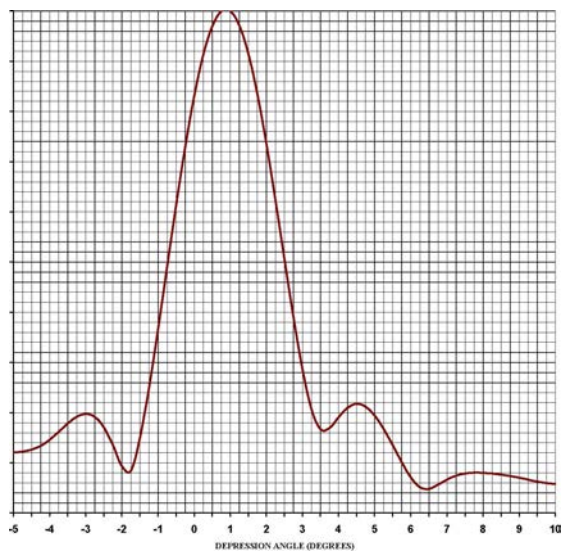
8 Bay 9.5 dBd



12 Bay 11 dBd



16 Bay 12.3 dBd



24 Bay 14 dBd



Mechanical Data Low & Mid Power Antennas

<u>Channel</u>	<u>Height (ft)</u>	<u>Weight (lb)</u>	<u>Windload (lb)</u>
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4 Bay

14-30	10.5	60	200
31-45	9.6	57	190
46-61	8.5	55	180
62-69	8.0	50	170

8 Bay

14-30	20.5	120	390
31-45	18.4	114	370
46-61	16.4	110	350
62-69	15.0	100	330

12 Bay

14-30	30.0	175	575
31-45	18.4	170	545
46-61	24.0	165	515
61-69	22.0	160	490

16 Bay

14-30	40.4	240	770
31-45	35.4	230	730
46-61	31.4	220	690
62-69	29.0	210	660

24 Bay

14-30	58.4	345	1150
31-45	53.3	325	1090
46-61	47.3	305	1030
62-69	43.0	290	980

32 Bay

14-30	78.0	435	1535
31-45	70.8	415	1450
46-61	62.8	395	1370
62-69	57.0	380	1310

ATC-BC8 LPTV Antenna

8 BAY Low Power Television Antenna

Omnioid, C1, C2, C3 & P1 Azimuth Patterns

7/8" EIA 50 ohm Input - 1.5 kW Max Average Power

1.5 Degrees Standard Beam Tilt

<1.08 VSWR across 6 MHz Channel

Lightweight Aluminum Construction

Slot Cover Radome

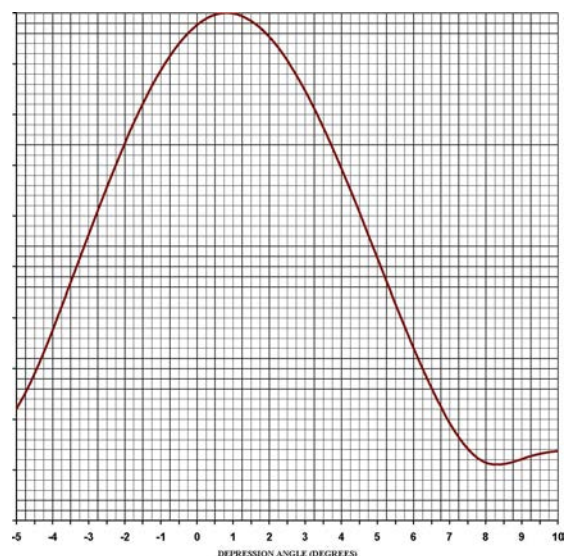


1-5/8" EIA 50 ohm Input

5 kW Max Average Available

Pressurized or Unpressurized Styles

2 and 3 Channel Wide Versions Offered



ATC-BCV VHF Antenna

Coaxial Pylon Style Antenna

Horizontal Polarization

Slot-Cover & Full Radome Available Pressurized

1kW to 35kW Input Power

<1.10 VSWR per 6 MHz Channel

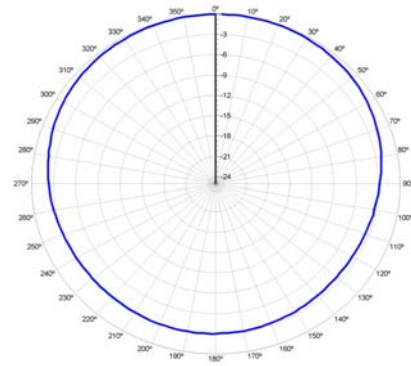
Available Channel 7—13

Corporate or End Fed

2 to 12 Bay Designs

1-5/8" or 3-1/8" 50 ohm EIA Input

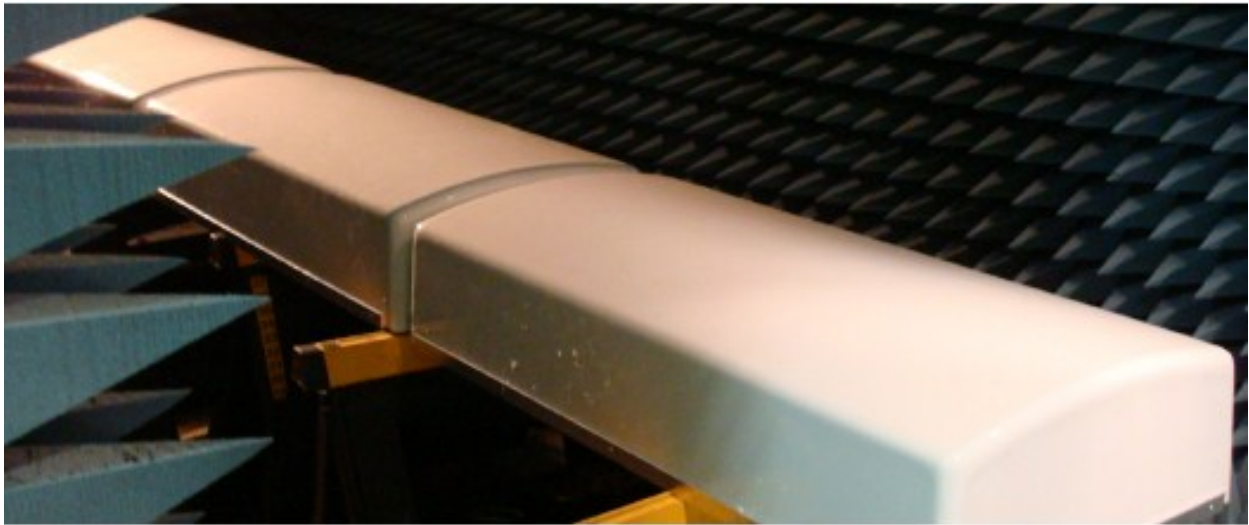
Tower Top or Side Mount



Available as Omni, Skull or
Wide Cardioid



ATC-BPX UHF Panel Antenna



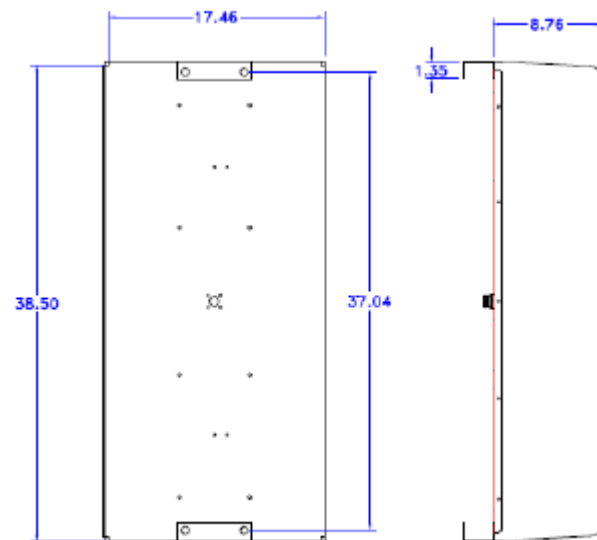
Alive Telecom's horizontally polarized, radome enclosed panel offers the broadcaster multiple options for the ever changing broadcast market.

Various azimuth pattern and elevation gain selections available.

Low downward radiation for tower or rooftop installation.

Single or multi channel use.

DC grounding to resist lightning strikes.



Electrical Specifications

Frequency: 470-806 MHz

Polarization: Horizontal

Input Power: 1.2 kW max

Input: EIA-7/8" or DIN-7/16"

VSWR: 1.10:1

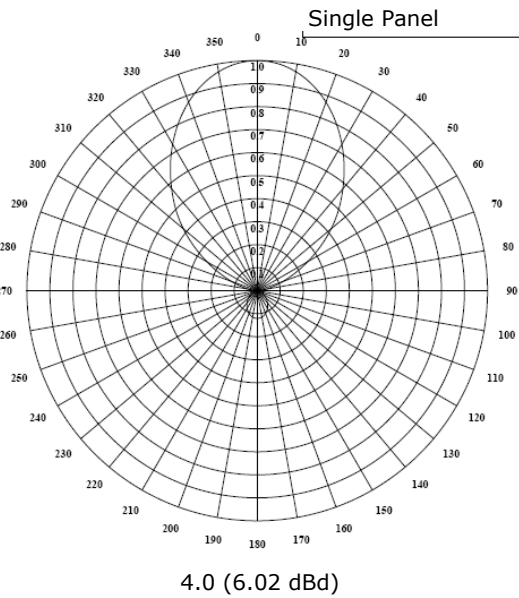
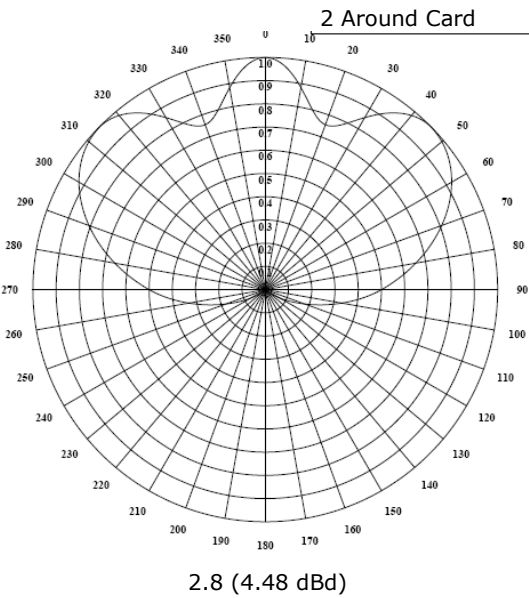
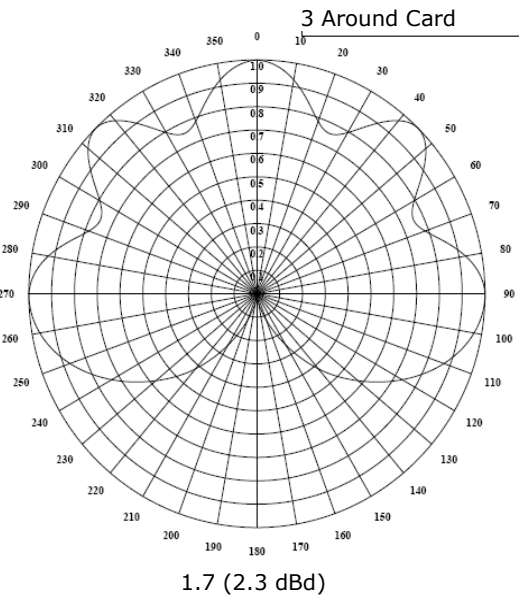
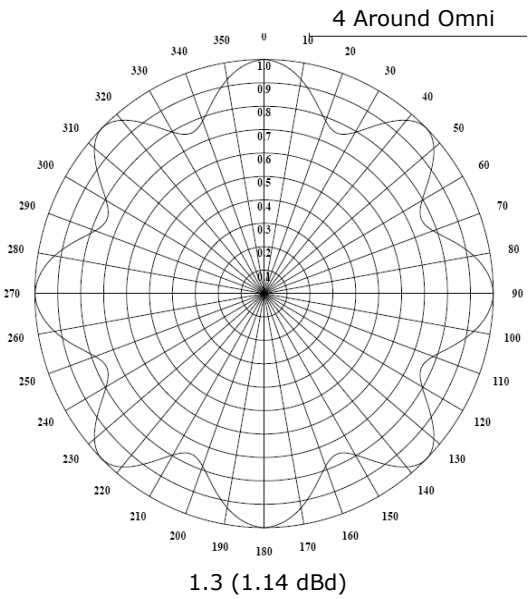
Mechanical Specifications

Dimensions: 38.5"L x 17.5"W x 8.76"H

Weight: 27 lbs

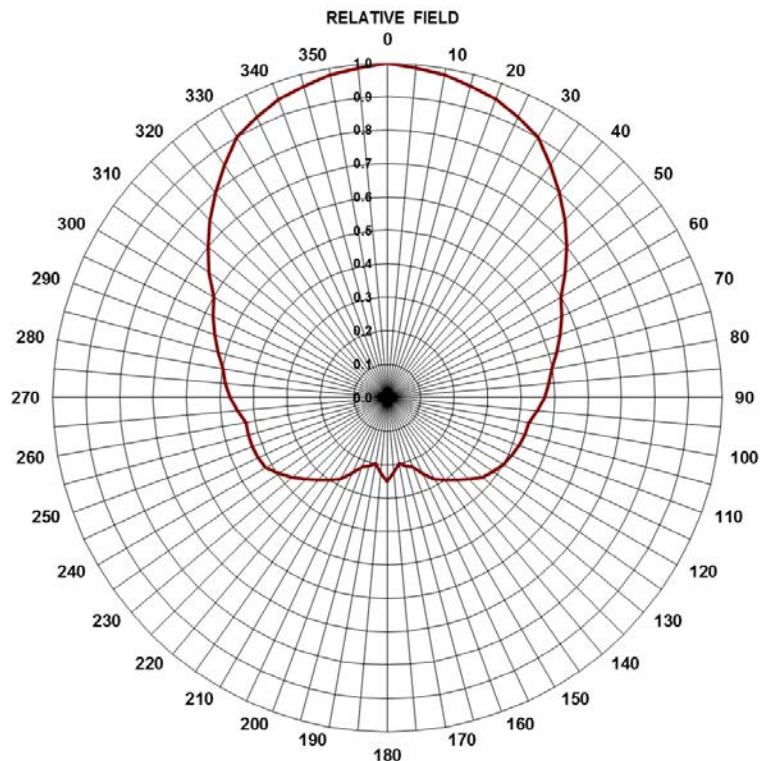
Construction: Brass & Stainless Steel

Azimuth Patterns



Gap Filler Antennas

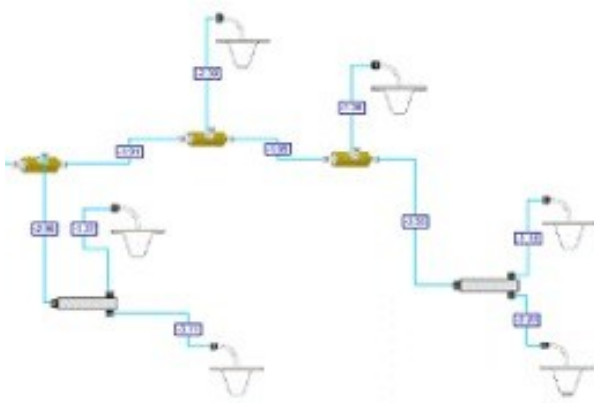
Electrical Specifications	
Frequency Range	470-698 MHz
Gain	6.5 dBd Nominal
Impedance	50 ohms
VSWR	< 1.1:1
Polarization	H, V or C Pol
Azimuth	90 Degree
Connector	N or DIN 7/16 Female



In Building Distributed Antenna Systems

Today people demand the flexibility of high-speed wireless connectivity everywhere. Cell phone, email and wireless internet access all day.

Alive Telecom offers engineered solutions designed for the specific coverage and capacity required. The In Building system can incorporate either an outside donor signal or a dedicated base station throughout the facility and deliver the information with a mixture of coax cable, fiber optic repeaters and indoor antennas. A single system can cover multiple carriers in every wireless band offered.



Once installed, the system is an unobtrusive gateway to greater productivity, while providing peace of mind for public safety.

Anywhere, Anytime Communications

RF Field Safety Testing & Evaluations

Comprehensive Safety Assessment

Determine values of each individual transmitting antenna

Review locations where human safety needs to be

Identified and controlled

Field strength measurements in shared site locations such as Building rooftops, reveal frequency selective "Hot Spots"

Test conducted using FCC OET 65 Occupational & General Public Standards. Time & spatial sample analysis

Alive Telecom offers corrective solutions

Safety measurements are performed using the Narda SRM-3000.

Pre install evaluation for optimum antenna placement



ALIVE Telecommunications

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