



Mobile WiMAX Tower

RUS-Accepted, Rapid-Deployment WiMAX System with Integrated BreezeMAX® Base Station

The Mobile WiMAX Tower from Alvarion is a fully integrated Broadband Wireless Access (BWA) system with a built-in BreezeMAX base station and antenna array for ready-to-go high-speed wireless networking. Easily shipped or transported, even by helicopter, the Mobile WiMAX Tower is ideal for quickly establishing connectivity during disaster relief operations and situations requiring fast network establishments. Provide temporary or permanent wireless access virtually anywhere.



Fast Deployment

Operators benefit from quick deployment with a park-and-deploy set-up time of only 12 minutes. The tower, antenna and base station, in a lockable rack enclosure, are trailer-mounted and configured during shipping for fast and easy deployments.

The Mobile WiMAX Tower is built tough to offer superior performance even in extreme conditions. Ideal for temporary WiMAX deployment and more permanent wireless networking, the Mobile WiMAX Tower features a heavy-duty 106-foot tower assembly with a 90 MPH wind rating and the highest strength-to-weight ratio in the industry. Quickly deploy wireless broadband in difficult to reach areas or virtually anywhere.

RUS Accepted

The Mobile WiMAX Tower is the first mobile WiMAX solution to receive USDA acceptance and “Buy American” status from the Rural Utilities Service (RUS). Offering a complete broadband wireless solution for rural development, the Mobile WiMAX Tower is available fully-integrated with the first RUS-accepted WiMAX base station, the BreezeMAX 2300/2500. This acceptance enables operators to apply for federal funding in the form grants, loans and loan guarantees when building WiMAX networks for rural and underserved communities.

Operators can use federal money to build complete broadband radio access networks based on FCC licensed frequencies, using WiMAX Forum™-certified and proven Alvarion equipment.

Visit <http://www.usda.gov/rus/> for more information.

Main Features



- Integrated mobile tower with available built-in BreezeMAX base station and antenna array for instant Broadband Wireless Access (BWA) virtually anywhere
- Designed for easy shipping and transport as cargo or deployed by helicopter with all equipment pre-mounted and configured
- Industry-leading 12-minute deployment time
- The first RUS-accepted WiMAX base station for government assisted deployment
- 106-foot (max.) heavy-duty telescoping tower assembly
- Supports Alvarion 3/4 sector WiMAX range (BreezeMAX - 2.3 / 2.5 / 3.5 / 3.65 GHz)
- Supports Alvarion unlicensed range (BreezeACCESS® VL – 900 MHz / 4.9 / 5.3 / 5.4 / 5.8 GHz)
- Supports all types of backhaul
- Built tough to perform in harsh environments including high winds and extreme temperatures



Government and Civilian Applications

Connect multiple sites with a single Mobile WiMAX Tower or use more than one to create an extended network. The tower is built to withstand high winds and severe weather with a sealed rack enclosure for either temporary or permanent deployment. The Mobile WiMAX Tower requires a minimal amount of space and can be parked right where you need it for a reliable link. Fully extend the tower and guy-wire it for permanent networks. It is ideal for nearly any WiMAX application.



- **Disaster Recovery** - Bring in an Alvarion Mobile WiMAX Tower by truck or by helicopter and provide broadband wireless access to virtually any area struck by natural disaster. Remove the trailer wheels, set the rig on a solid pad to prevent sinking, and connect multiple buildings. The weather-sealed rack enclosure and rugged guy-lines offer a secure, rugged structure of any permanent tower.
- **Military and Public Safety** - Provide broadband wireless access for virtually every potential military and government application from temporary posts and mobile hospitals to autonomous device control such as robot operations, to secure building-to-building networking and more.
- **New Operator Challenges** - Generate revenue today by offering WiMAX to customers right away with a temporary Mobile WiMAX Tower. Avoid costly delays. While you are waiting for lease agreements, licenses, engineering plans and construction of new towers, you can provide service by renting a small space to park your temporary tower. And, you have the opportunity to start testing your network right away by placing the Mobile WiMAX Tower where a permanent tower is planned.
- **Wireless Network Trial & Testing** - Verify your computer model by temporarily placing a WiMAX tower according to the proposed configuration. Real-time testing is the only sure way to make sure you have an optimized link. Simply move the tower to test a new location for the same or different network.
- **Autonomous Villages & Cooperatives** - Rural and secluded towns and villages can now take advantage of WiMAX high-speed connectivity. Place the Mobile WiMAX Tower near the center of town. Switch it on with a satellite backhaul and bring wireless networking to remote areas almost instantly.
- **Oil & Gas and Seaports** - Quickly set up and transmit critical information to and from inbound tankers. Conduct video conferences between an off-shore platform and corporate headquarters. Monitor remote platforms with high-resolution video cameras in real-time over a broadband wireless link, and much more.
- **Utilities and Mining** - Promptly enable video surveillance to enhance safety and security, remote operations from headquarters, and asset tracking for improved productivity. Connect corporate buildings and office facilities spread across urban or rural areas.

System Specifications

Headquarters

International Corporate Headquarters
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For the latest contact information
in your area, please visit:
www.alvarion.com/company/locations



www.alvarion.com

Telescoping Tower

- 106 feet fully extended
- Extends up to 80 feet without guy wires for operation in light wind
- 850 lb. antenna array capacity
- 90 MPH wind rating
- 70 MPH wind/ice rating
- Guy-wire levels: 21 feet / 55 feet / 106 feet
- 5 sections (largest mobile tower face available)
- Heavy-duty steel tubular construction
- Galvanized finish
- Weather-proof locking control panel
- High-torque electric lift motors
- 3/8-inch redundant loaded aircraft-quality lift cables
- Cable storage reel
- Cable guide rings on each tower section
- (2) heavy-duty hydraulic tilt pistons
- Limit switches for tilt and extension

Trailer

- All steel construction
- 2 5/16-inch standard ball hitch
- Removable swing-away hitch
- Optional gooseneck, 5th wheel and pintle hitch
- Emergency breakaway
- (3) UL listed sector bars: 2" x 12" x 1/4"
- UL listed master bus bar: 2" x 24" x 1/4"
- Class 2 grounding
- (2) heavy-duty safety chains
- (8) telescoping outriggers with adjustable jacks
- (4) bubble level guides
- Heavy-duty (14,000 lb) spring-loaded jack post
- (7) 2' x 12' wood stabilizer planks
- Heavy-duty (14,000 lb) suspension
- Galvanized tower base
- Electric brakes
- Sealed beam DOT lighting and reflective striping
- Six-pin lighting connector & receptacle assembly
- User Manuals for maintenance and operation
- Safety and operation decals
- Heavy-duty guy wire kit with ground anchors
- Exclusive tower guide blocks
- 1-week runtime on full tank of diesel fuel

Rack Enclosure

- Platform mounted
- NEMA 3R outdoor enclosure and UL cabinet
- 42-inch vertical mountable space with (24) standard 19-inch rack units
- Solid adjustable support system for racks and accessories
- Durable aluminum construction with damage-resistant polyester powder coating
- Foil-backed insulation
- Front and rear pad-lockable swing-out doors with wind brace
- Assorted knockouts for cables and access
- Blank plate on left panel
- 11 position ground bar
- 48V DC power supply with 2 x 20A rectifiers (40A)
- Heavy-duty lifting eye bolts

Air Conditioner

- McLEAN T29 air conditioner mounted to enclosure
- 4,000 BTU/Hr with 500W Heater
- 28.9" H x 17" W x 11.3" D
- Extreme condition thermal control system (optional)

Power

- 120 VAC (input) - 120 / 240 VAC (output)
- 25 kW diesel generator (1 week runtime - optional)

Dimensions

- 28' L x 7.5' W x 7.5' H (Fully nested & container shippable)

Weight

- 12,400 lbs (3 sector array - fully outfitted with Alvarion BreezeMAX)

About Alvarion

Alvarion is the largest WiMAX pure player, ensuring customer's long-term success with fixed and mobile solutions for the full range of frequency bands. Based on its OPEN™ WiMAX strategy, Alvarion offers a superior wireless broadband infrastructure and an all-IP best-of-breed ecosystem in cooperation with its strategic partners. Alvarion has more than 200 commercial WiMAX deployments worldwide.