



WE ARE DEDICATED TO YOU

- ✓ Over 15 years of experience delivering and supporting unique railroad solutions
 - √ 100% dedicated to serving the Railroad and Intermodal/Port industries
 - ✓ Custom technology solutions and service provider to the Railroads
 - ✓ We specialize in solving Railroad & Intermodal problems with proven technologies and services

ON BOARD WITH YOUR SUCCESS

Buckeye Mountain is dedicated to providing the transportation industry everything needed to implement and manage technology solutions, including rugged hardware, customized software and wireless network infrastructure.



HARDWARE SOLUTIONS

Your single point of contact for rugged computers and life cycle management of field devices

- Equipment procurement based on your requirements
- Fixed (kiosk), mobile and wireless rugged computers
- Multiple resources to assure best match to your specific needs
- Multiple procurement options, including volume discounts, equipment rental and leasing plans



SOFTWARE SOLUTIONS

Solutions engineered for the Railroad industry and customized for your operation

iTrack manages and tracks your mobile technology inventory

IMRS is a full-package Intermodal Maintenance and Repair System

CBMP is a Conditioned Based Maintenance Program that manages the fluid sampling process for locomotives

SCBA combines the latest in RFID technology with webbased and handheld technology to certify and track the equipment used to keep locomotive conductors and engineers safe



WIRELESS SOLUTIONS

Network evaluation or design, installation and certification

- Site survey and certification
- Bandwidth requirement and analysis
- Range and coverage analysis and verification
- Spectrum analysis
- RF Interference assessment
- Security assessment and analysis
- Network design and installation
- Wireless backhaul solutions
- Product/equipment selection and integration
- Wireless bridging
- Training and support
- Final survey/certification report
- Warranty coverage

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Some of our Customers







































MAXIMIZING FIELD TECHNOLOGY ROI

Procurement consulting

Matching requirements to proven railroad technology projects

Pre-Deployment preparation

- Design and selection through lesson's learned
- Wireless & Mobile Device
- Comprehensive solution testing
- Reliable and secure configuration
- Automate deployment against Project Plan

Deployment and Support

- Railroad hours support
- Remote management and troubleshooting keeps the devices in the field
- Automated deployment, "kitting", and issue management via iTrack

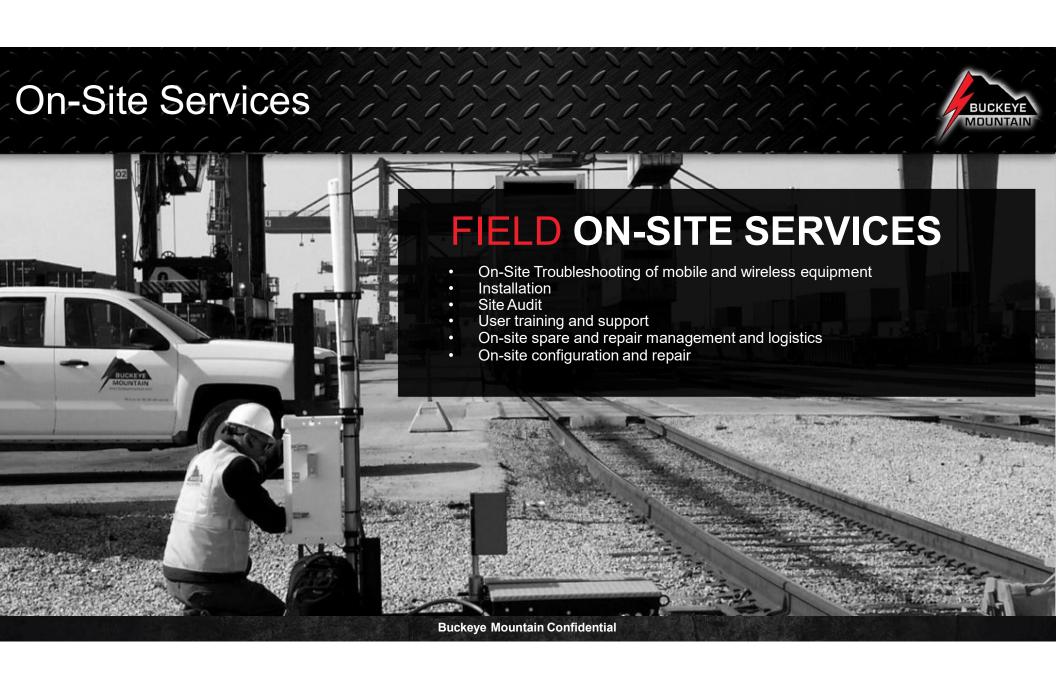
On-going Care and Feeding

Project management and status

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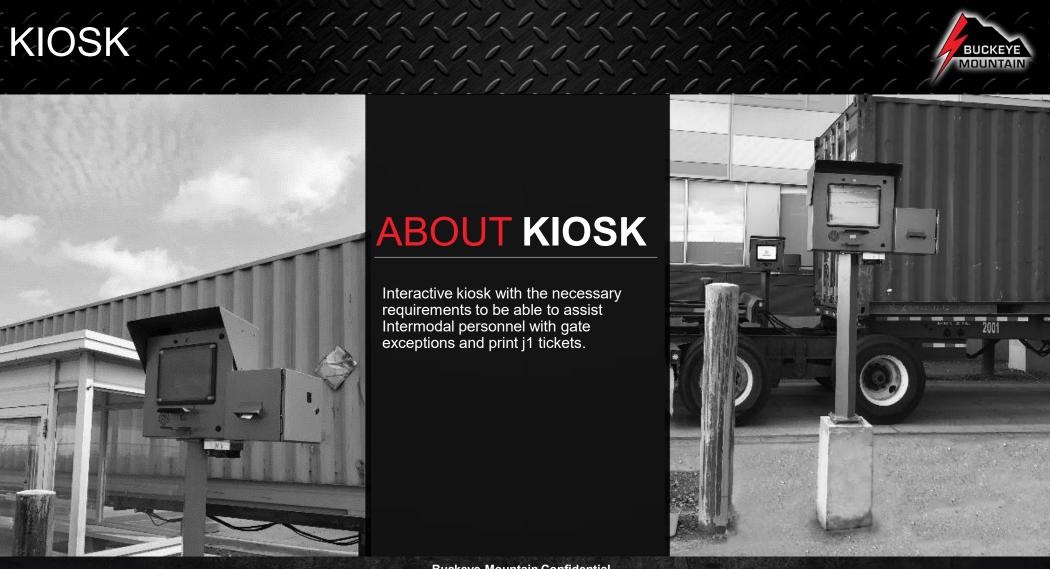






ABOUT KIOSK

Interactive kiosk with the necessary requirements to be able to assist Intermodal personnel with gate exceptions and print j1 tickets.



Buckeye Mountain Confidential





Rapid Deploy
Patented Autonomous Wireless Solutions



INNOVATIVE, RELIABLE AND QUICK TO DEPLOY

Rapid Deploy was developed for our customers to implement an outdoor wireless network quickly and cost effectively without the need for trenching power and network connectivity. It's flexibility of design and quick implementation without any infrastructure requirements eliminates costly civil work. Our Rapid Deploy product family minimizes the cost of network installations and guarantees connectivity.

This Patented solution can be quickly relocated with minimal effort to provide ultimate flexibility in providing wireless coverage where needed. Its designed to successfully provide reliable connectivity in the most demanding outdoor environments very quickly and economically.

Top issues addressed:

- · Cost of trenching power and network connectivity
- Lack of available vertical assets
- Self-Interference in outdoor deployments and high-speed bandwidth demands.
- Guaranteed Connectivity!



Rapid Deploy Wireless Overview

Buckeye Mountain provides a unique suite of products and services to address the challenging demands of Railway and Intermodal/Port outdoor large-scale wireless networks. Our staff of highly qualified engineering and technical support personnel are responsible for all aspects of delivering and supporting best in class wireless solutions for our customers. Products included but are not limited to point to point, point to multipoint, Wi-Fi, narrowband, CBRS and cellular with FirstNet capabilities. Professional services include solution designs, spectrum analysis, site surveys, installation and on-going 24X7 monitoring and support.

Rapid Deploy Product Suite Overview



- RapidOne Completely stand-alone solution, 20' integrated mast
- RapidFixed Permanent installation requiring one single augured hole
- RapidMiniMax Pole or surface mounted, Solar or AC powered
- RapidSky High Mast light pole implementation
- RapidCase Ruggedized portable cell and/or Wi-Fi based hot spot

RapidOne Features

- Completely Stand Alone
- Solar Powered Even in Low Light
- Four Year+ Battery Life
- Point to Point or Multipoint Backhaul
- Cellular LTE Backhaul
- Strongest Signal 802.11ac Wi-Fi Access
- HD Video surveillance Capable
- Full Remote Management
- 20' Integrated mast
- Thermal management
- U.S. Patent 10,484,305



RapidFixed Features

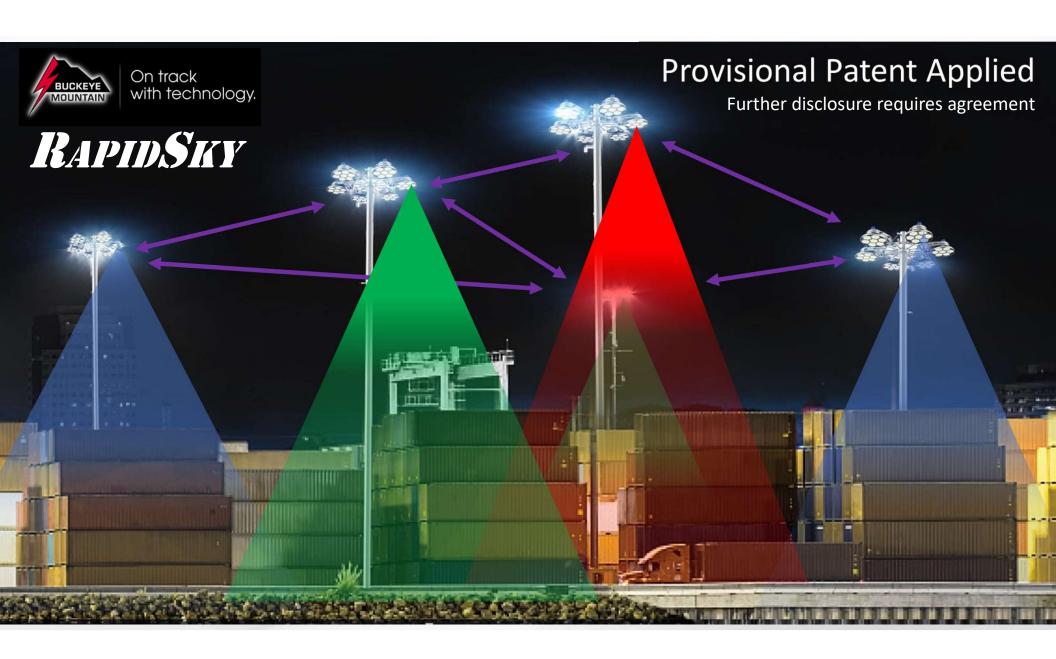
- Completely Stand Alone
- Solar Powered Even in Low Light
- Ten Year+ Battery Life!
- Point to Point or Multipoint Backhaul
- Cellular LTE Backhaul
- Strongest Signal 802.11ac Wi-Fi Access
- HD Video surveillance
- Full Remote Management
- Up to 30' Mast
- Thermal management



RapidMiniMax Features

- Customer provided structure
- Solar or AC Powered
- Ten Year+ Battery Life!
- Point to Point or Multipoint Backhaul
- Cellular LTE Backhaul
- Strongest Signal 802.11ac Wi-Fi Access
- HD Video surveillance
- Full Remote Management
- Thermal management





RapidCase Features

- Completely Stand Alone
- Extreme battery life
- Rechargeable via AC, DC and Solar!
- Cellular LTE Backhaul
- Point to Multipoint backhaul option
- 802.11ac Wi-Fi Access
- Weatherproof
- Ruggedized
- Complete remote management





Success Story #1



Problem -

This customer had deployed a Wi-Fi mesh network utilizing the light rings on high mast towers. The network was not reliable and provided very poor performance.

Success with Buckeye Mountain –

After evaluating the current design and deployment the Rapid Deploy team developed RapidOne, a solar powered quick to deploy product. The solution significantly reduced infrastructure costs and provided coverage and performance exceeding the customer's expectations. RapidOne is now their solution at three intermodal facilities in the US and Mexico. As of December, 2021 the customer has enjoyed 4+ years of uninterrupted connectivity with no equipment failures. RapidOne has been issued a U.S. patent.

Success Story #2



Problem -

This customer had deployed mobile devices relying on cellular service. A significant contract with a large provider included installations of outdoor DAS solutions at many port facilities. The reliability and performance of these networks proved to be inadequate for ongoing operations. It is common for these large facilities to stack containers five high.

Success with Buckeye Mountain -

Beginning in San Juan, Puerto Rico the Rapid Deploy team proved their metal when it was needed most; post Hurricane Maria. Since then, we have deployed Rapid Deploy systems to cover four other port facilities and two container ships for this customer.

Success Story #3



Problem -

This customer had not deployed Wi-Fi and had been relying on an outdated narrowband solution. New desired applications required high throughput and reliable connections. Many of their facilities were in poor cellular coverage areas.

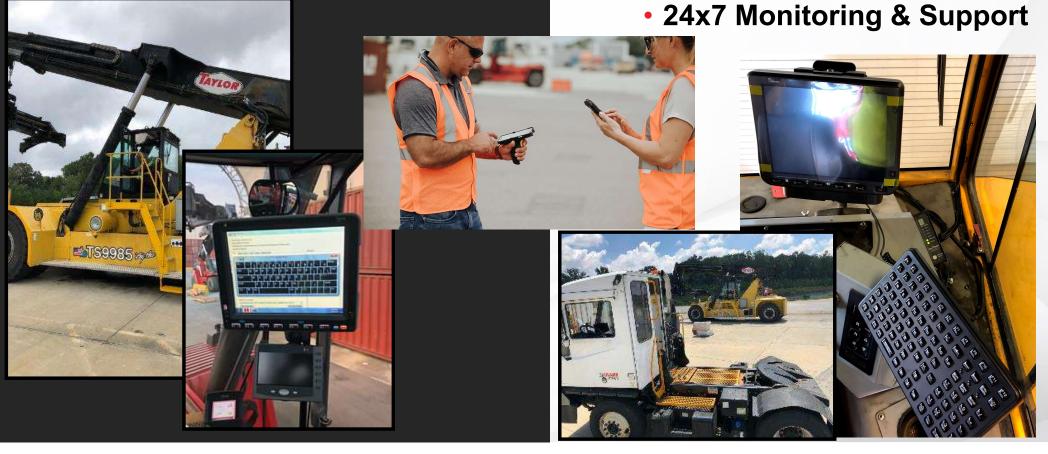
Success with Buckeye Mountain -

Starting in the last quarter of 2019 the Rapid Deploy team began deploying RapidFixed at nine of their Intermodal facilities. In record time all nine locations were operational by January 2020. The ever expanding Rapid Deploy network roll-out project continues to this day. All locations are monitored and maintained Buckeye Mountain as a guaranteed connectivity-as-a-service model.

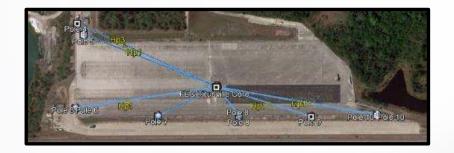


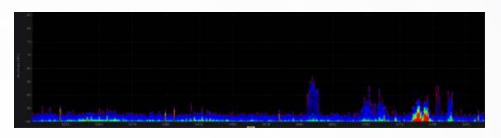
Wireless Exists only to Support Mobile!

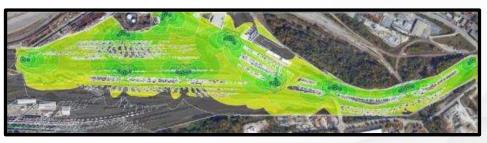
- Design to support mobile
- Install to support mobile

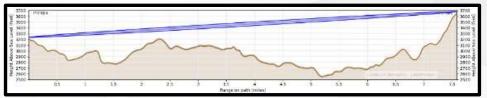


- Link Planning
- Predictive Studies
- Spectrum Analysis
- Site Surveys
- Heat Mapping









Design Services

- Safety Certified Installers
- eRailSafe
- TWIC
- Project Management



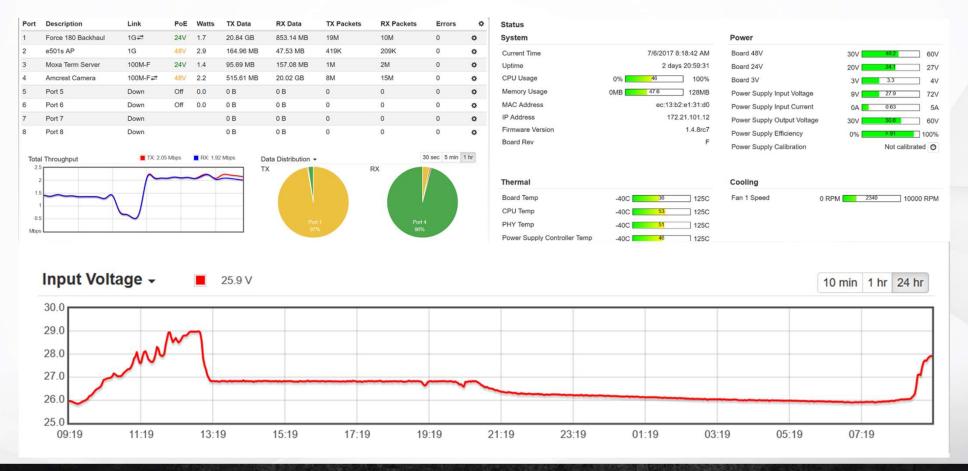




Installation Services

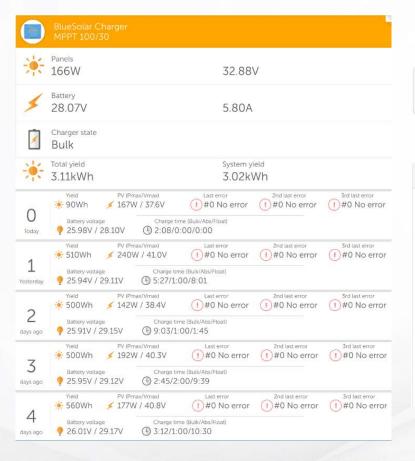
Complete Remote Management Support



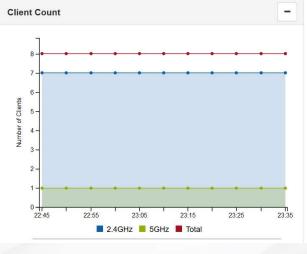


Complete Remote Management Support











Complete Remote Management Support

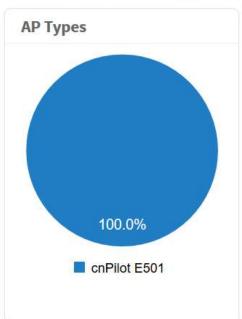


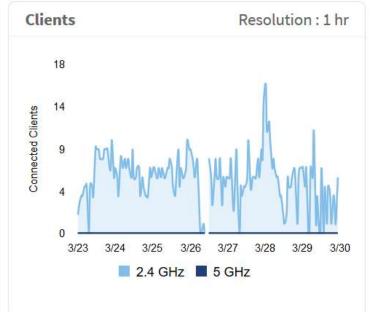


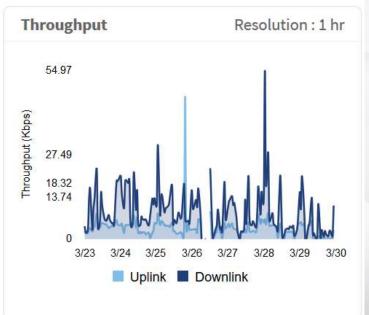


Throughput	t Last 5 mins
11.37	Kbps 2.09 Kbps
Downlink	Uplink



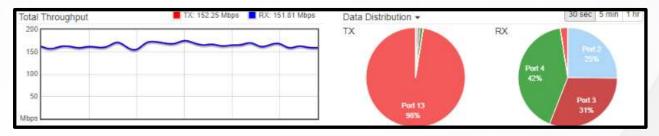


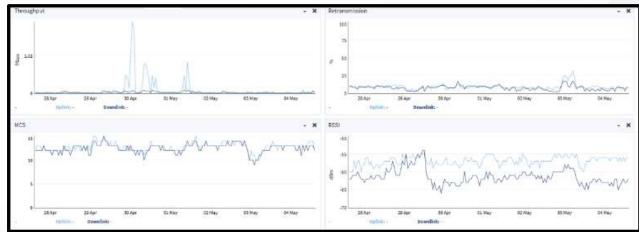




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24x7 Support





AEI QUICKREAD

Our AEI Quickread™ application provides a simple method to read a railroad AEI tag which displays the car initial and car number. We designed this software to run on multiple handheld devices as well as tablets and laptop computers. AEI Quickread™ application supports Windows Mobile™ 6.5 and Windows™ 7/8.1/10.Slid

KEYBOARD WEDGE OPTION

This feature allows the car initial and car number to be scanned directly into an existing customer application.







Tracklist is Buckeye Mountain's newest addition to a successful suite of software for the Rail and Intermodal industry. Tracklist is designed to be intuitive and user-friendly. Utilizing a mobile handheld with an integrated AEI RFID reader, multiple railcars can be scanned and a track inventory list is created. Once Tracklist data is captured, the information can be sent via FTP or email. Tracklist gives mobile field workers a reliable tool that will provide an accurate inventory of railcars within their facility.

Tracklist Supported Devices







CONTACT US TODAY!

Please contact us at sales@buckeyemountain.com for more information on this software application

End-to-End Evolutionary Innovation





Containerized Cargo Chain-of-Custody



Tractor / Hostler ID:

- Telematics/Diagnostics
- Driver/Operator Safety
- ELD Driver Log / Fuel Tax

IoT Nodes:

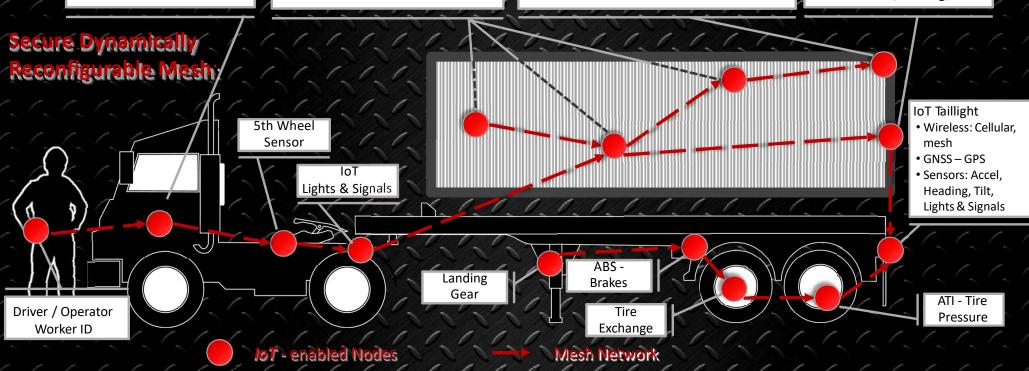
- Sensors: Temp, Humidity, Light...
- Cargo: Manifest/Distributed Ledger

IoT Sensor load, state

- · Wireless: Cellular, Satcom
- GNSS GPS
- Sensors: Door, Load, Temp, Humidity, Light, ...

IoT Door Lock

- Wireless: Cellular
- GNSS GPS
- Sensors: Accel, Heading, Tilt



Track Overview





Cradle-to-Grave Asset Lifecycle Management

Buckeye Mountain's iTrack System provides real time asset management tools via the Software as a Service (SaaS) model. Buckeye Mountain maintains detailed, historic records for asset acquisition, initial configuration, deployment, RMA, repair, reconfiguration, and eventual end of life retirement.

Your asset's information can be retrieved in real time via an easy to use web browser interface, from anywhere. Additionally, information and reports can be exported for presentations and review.

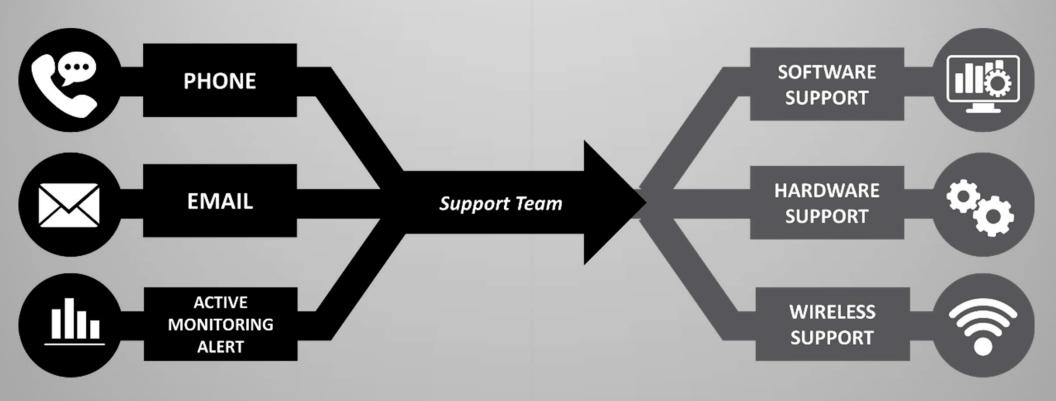


Key features

- High Accuracy
- Detailed History
- Real Time Alerts
- Repair Management
- Shipping and Receiving
- End-of-Life Management

Incident Routing





Phone & Email Support



- Buckeye Mountain Support offers 24/7 support contracts to assist our customers with day-to-day device support issues.
- Buckeye Mountain Support can install remote control software so a support technician can fix or update software changes remotely.
- Customers on a support contract can call the service center for assistance during our normal business hours, and call-back after hours.
- iTrack provides an incident reporting tool to record all incoming support requests by location, user and device.





Company Info



Corporate Headquarters

1. Niwot, CO

Sales & Operations

- 2. Akron, OH
- 3. Cincinnati, OH
- 4. Jacksonville, FL
- 5. Chicago, IL
- 6. Raleigh, NC
- 7. Ft. Worth, TX
- 8. Monterrey, MX

Warehouse Locations

- Belton, MO

Contact Us

sales@buckeyemountain.com 800.429.5590 www.buckeyemountain.com

