



Construction Asset Monitoring Value Proposition

A Real Difference

NO cell/satellite subscription fees.

NO infrastructure needed.

Portable and rugged — It works wherever you do.

Automatic, wireless & hands free data collection.

Easy to use, easy to set up. Really.

A Real Savings

Save \$21,000 a year on data collection.

Reduce searching by just 3 hours a day and save \$18,000 a year.

Save \$2,800 a year — reduce idling equipment by just 2 hours a day.

Save thousands by monitoring equipment vitals and service.

Know the total cost of equipment ownership.

Locate — Track — Monitor

TeraHop Networks, Inc.™ Construction Asset Monitoring System — (CAMS) automatically provides the information construction companies need to efficiently monitor and manage their mission critical assets — personnel, equipment and vehicles.

CAMS is a patented, state-of-the-art, portable solution that delivers accurate data even in remote locations and severe conditions, and is ideal for construction companies that want to drive efficiencies and increase profitability.

Streamline Data Collection/Input

Replace time consuming and error prone manual data collection and input with automatic, accurate, timely and hands-free, wireless collection resulting in faster and better-informed decisions.

Minimize Waste

Searching for misplaced equipment, tools or vehicles reduces productivity and results in significant costs including time, resources and payroll dollars. Excessive engine idle time can cost your company unaccounted for expenses in fuel costs and equipment wear.

Eliminate Downtime and Increase Asset Life

Collect actual engine idle and runtime measurements and manage cost-saving preventative maintenance accurately. Late maintenance can cause repairs in the thousands of dollars and doing maintenance too often increases cost of ownership.

Increase Profitability with TeraHop Networks Construction Asset Monitoring System

- Know where your inventory, equipment, personnel and vehicles are at all times
- Optimize equipment utilization
- Know the total cost of equipment ownership
- Reallocate human resources from manual data collection to revenue-generating activities

Cost Savings That Improve Your Bottom Line

A typical construction company's savings using the TeraHop CAMS:

Task	Weekly Hours Saved	Hourly/Per Gallon Rate	Total Annual Savings
Data Collection/Input	30 hours	\$15	\$21,000
Eliminate Manual Yard Checks	15 hours	\$25	\$18,000
Reduce Drive/Idle Time	10 hours	\$3	\$2,800
Reduce Yard Truck Maintenance	25%		Current costs reduced by 25%
Total Annual Savings			\$41,800+



Let us show you how CAMS will save you money and increase productivity.

“ We chose TeraHop Networks CAMS because it delivers all the features we need and works in any environment we do. We estimate a savings of more than \$60,000 a year compared to other solutions. They've solved an important problem for us. ”

Bill Grady, CEO, KLB Construction

678.455.8844 • terahop.com

Construction Asset Monitoring System Overview

Benefits

Monitor personnel and store data for payroll, and workers comp claims.

Monitor asset presence on-site to optimize utilization.

Monitor engine idle and runtime to ensure timely maintenance.

Reduce maintenance and repair costs.

Improve project costing accuracy.

Locate — Track — Monitor

TeraHop Networks, Inc. Construction Asset Monitoring System — (CAMS) accurately monitors all assets typically found on a construction site. Document the presence of personnel, equipment and vehicles at the site automatically. Collect actual engine runtime measurements and manage cost-saving preventative maintenance accurately.

No Cellular or Satellite Subscriptions

The CAMS uses patented wireless technology to communicate engine runtime, equipment and personnel presence without the need for cellular or GPS reception at each asset.

Installation is Fast and Easy, No External Power Needed

Bolt on to any vehicle, drop into any pocket, or Velcro to a toolbox and monitor virtually anything for presence at the site. CAMS operates independently of the equipment's power supply using a 2-year internal battery.

CAMS Works Wherever You Do

CAMS can easily communicate where no other systems can. CAMS Portable Data Collectors attached to assets operate cooperatively to extend wireless reception into areas impervious to traditional radio and cellular devices.

On-Site Asset Monitoring



“ When we got the actual run times of our equipment we discovered we were overestimating it by 30 to 40%. We were taking our machines out of service for routine maintenance nearly twice as often as we should have. It's a clear case where TeraHop saved us a great deal of money and, just as important, time.

Richard Glass
Technology Manager
KLB Construction

CAMS Brings the Network to the Site

Portable Data Collectors (PDCs) used by personnel are simply put in a pocket and can be easily attached to equipment and vehicles. PDCs act as a local sensor and wireless network router and each PDC contains radios, antennas, a controller, memory, sensors and batteries internal to the housing. The Portable Data Collectors operate 24/7 and automatically create hopping paths to communicate with other PDCs and directly with TeraHop's Wireless Data Uplink (WDU). PDCs hold their data until they automatically detected a WDU and forward their data on.

Wireless Data Uplinks can be carried by any vehicle or mounted to any structure at the site. A WDU holds all collected data until it is able to upload to a server via wireless or a standard Ethernet interface.

Wireless Data Uplinks are also equipped with a GPS receiver, which permits localization of PDCs within its network. From the WDU-generated information, site-wide data can be viewed from a computer, or smart phone, located at the site or at any other location with a wireless connection. It's that simple.