



MOTOTRBO™ GAIN GROUND ON PRODUCTIVITY AND EFFICIENCY

PROFESSIONAL DIGITAL TWO-WAY RADIO SYSTEM



As the operations manager of a mining company, you're under pressure to provide stakeholders a greater return on investment, ensure workers' safety, and comply with stringent regulations. Despite volatile market conditions, mounting competition and disruptive equipment downtime, you're expected to ramp up production and contain costs.

To maximize your operation, you need reliable, easy-to-use communication equipment that can improve your team's efficiency, collaboration, safety and rapid response to incidents – communications that can help you deliver complex projects on time and within budget.

THE CHALLENGE

Your profitability depends on the volume you output and the operational efficiency you achieve.

If you're going to optimize productivity, you need seamless and rock-solid communications.

Yet, with commodity price hikes and budgetary constraints, you have little capital for communications. How can you avoid the expense of repeatedly ripping and replacing communications equipment? How can you harness the power of digital technology without losing your investment in analog?

THE SOLUTION

Migrate to digital at your own pace and leverage the versatility and power of the latest digital technology and best of two-way radio functionality with MOTOTRBO.

With MOTOTRBO, you can scale as you need, perform more efficiently with seamlessly integrated voice and data, and expand your reach by two times the capacity of analog systems. What's more, MOTOTRBO gives your workers a safety net by providing them long-lasting connection and exceptional voice quality even in the loudest environments and most remote locations.

Benefit from a radio that automatically boosts the volume level when dump trucks roar by or heavy machinery is grinding away. With our new MOTOTRBO DGP™8000/ DGP™5000 and DEP™ 500 Series radios, you gain Intelligent Audio – a smart new feature in digital mode that adjusts radio volume to fit your environment's noise level.

MOTOTRBO BENEFITS

- Reach your workforce anywhere they go with voice and data
- Improve efficiency and safety on the job
- Keep connected easily and seamlessly
- Improve response time
- Maximize your system investment and infrastructure
- Enhance value and reduce operating costs.

Significant cost savings can be realized if mine operators take steps to optimize their operations.

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EXTRACT GREATER PERFORMANCE AND SAFETY

Whether field workers are nearby or in a remote location, using MOTOTRBO, they can communicate in a clear, crisp voice despite the raucous of heavy machinery. When contractors need to exchange technical information, they can easily do so with MOTOTRBO's text messaging that connects radios to email-addressable devices and dispatch systems. If critical spare parts are needed, you can quickly identify and locate them for faster maintenance. And should an emergency arise, you can use MOTOTRBO to locate the closest personnel for faster response.

REACH YOUR TEAM. REACH YOUR GOALS.

Communicate clearly with exceptional audio.

No matter where your workers are in the field, they can clearly and more accurately communicate via voice and data with virtually no loss throughout the coverage area. Unlike analog, their radios' signal strength won't drop off with distance or cause distracting static. That's because they get the latest digital technology when they use MOTOTRBO, which enhances audio over a wider area than analog radios ever could.

Prioritize communication immediately.

Emergencies do happen, and when they do, every second counts. You need a way to communicate with your workers immediately. With MOTOTRBO's transmit interrupt suite, you can prioritize critical communication the moment you need to via our voice-interrupt, emergency-voice-interrupt and data-over-voice-interrupt features.

Share information quickly, easily and seamlessly.

Whether you need to send directions to the next work site or receive notification a job is complete, you can communicate between radios and dispatch systems, between radios and email-addressable devices and to remote PC clients attached to radios, using MOTOTRBO's text messaging feature.

Keep connected with your workers in the field.

Be confident your operation is staying productive and your workers are safe. With the radio console solutions, available through our Applications Developer Program, you can have centralized dispatch capability for visibility and access to your mobile work teams no matter where their job takes them. MOTOTRBO's integrated GPS gives you easy, immediate access to track your people and your assets.

Extend coverage and expand capacity.

Meet your communication needs today and in the future with a variety of MOTOTRBO solutions:

- **IP Site Connect** uses a standard IP network to extend the voice and data capabilities of MOTOTRBO. You can link up to 15 sites to create a continuous network – so no matter where your work crews are in the field or how remote the environment, they are rapidly and reliably connected. Or you can link up to 15 sites for communication at geographically-dispersed locations or enhance coverage at a single site with physical barriers.
- **Capacity Plus** is the single site digital trunking solution that maximizes the capacity of your MOTOTRBO system. Use it to enable a high volume of voice and data communications for over a thousand users at a single site, without adding new frequencies.
- **Linked Capacity Plus** is an entry level, multisite digital trunking system configuration for the MOTOTRBO platform. It leverages the high capacity of Capacity Plus, and the wide area coverage capabilities of IP Site Connect to keep your field workers connected with an affordable high capacity, wide area trunking solution.
- **Connect Plus** is the scalable, multi-site digital trunking solution that helps keep your entire workforce connected – up to 2900 crews per site. So whether they're exploring terrain, building roads, or extracting raw materials, they can communicate and collaborate efforts. At the same time, you can link multiple sites, ideal for mining projects that call for large work teams operating across a wide area. With our



APPLICATION BRIEF
MINING

high capacity MOTOTRBO system, calls can be queued during busy times until an open channel is available, important users can be assigned priority status when the system is in high demand, and a wire-line console can be used for centralized dispatch. The dynamic site roaming capability lets your people move from site to site without having to manually change channels. So they stay focused on the job and stay connected.

HELP FIELD CREWS STAY FOCUSED AND STAY SAFER

Improve workforce safety

Interrupt multiple talk group conversations to deliver urgent messages. Empower your crew to notify dispatch of a situation using just a push of a button. With our integrated GPS module, dispatchers can then identify the actual location of the crew and immediately send assistance. In non-emergencies, dispatchers can text message field personnel information that can be read later, helping them keep their eyes on the task. And with our hands-free audio accessories, workers can stay focused on the job.

Hear clearly in loud settings.

Whether your workers are bulldozing terrain, conveying raw material or utilizing heavy machinery, they must be able to understand the message. With MOTOTRBO's background noise suppression feature, they are assured their communication comes through loud and clear.

Enhance safety with leading-edge accessories.

Ensure transmissions get through clearly and block out noisy vehicles and machinery with IMPRES accessories. With our full portfolio, you can enable your team to communicate hands-free with visor microphones or transmit text messages back to dispatch using our keypad microphones. With heavy-duty headsets, they gain improved audio and hearing protection in extremely noisy environments. In addition, your dispatch can more promptly communicate with teams thanks to our desktop microphones and tray with speaker that double as a mobile radio control station.

MOTOTRBO RELIABLE COMMUNICATIONS DELIVERS:

Uninterrupted voice communication without static or noise

Integrated voice and data in one device

Text messaging when voice communication isn't practical

GPS tracking and dispatch for access to mobile workers

Scalable solutions to meet your communication needs today and tomorrow

Easy migration from analog to digital because it operates in both modes



Text when talking isn't practical.

Make sure workers can swiftly and easily share information when voice communication isn't an option. Text messaging is ideal for sending messages that don't need an immediate response, or when voice calls are disruptive to employees on the job. Streamline time and improve safety with effortless text messaging from MOTOTRBO.

Decrease downtime and respond rapidly to needs.

Remotely monitor and track your fleet of vehicles and mining equipment to reduce downtime and better control your widely disbursed assets. With MOTOTRBO's integrated GPS module, you can identify in real-time the location of vehicles and staff to notify workers of last-minute changes and quickly address critical issues to avoid delays.

Get exceptional value and cut operating costs.

Double your analog capacity. By utilizing TDMA digital technology, you gain two virtual channels within a single 12.5 kHz licensed repeater channel. Since you don't need a second repeater, you save on equipment costs, too. By integrating voice and data in one device, MOTOTRBO saves you the expense of additional equipment for text messaging and GPS location tracking. And to help control the cost of replacing batteries prematurely, our leading edge IMPRES technology automatically maintains your battery fleet to lengthen battery life.

Migrate at your own pace.

With MOTOTRBO, you can keep operations running smoothly during a change in communication systems. Since MOTOTRBO radios operate in analog and digital mode, you can use them on your existing analog system and begin migrating over to digital – one talk group or department at a time – while maintaining communication across your entire workforce.

AGILE APPLICATIONS FOR YOUR MINE

- **Innovative applications:** Expand radio capabilities as your needs grow with such innovative applications as GPS location tracking, lone worker/man down, and network management.
- **Text messaging:** Don't distract your crew from the job or the road. Send them text messages they can read when convenient.
- **Location tracking:** Monitor vehicle locations in real time to optimize schedules and safety; since the GPS is integrated, there are no external devices to install and maintain.
- **Dispatch:** Monitor and communicate with your workforce from a centralized location.
- **Lone Worker / Man Down:** Receive automatic notifications if a worker drops his device at a certain angle and rate of speed, or if there is no activity during a certain amount of time. Even if workers are unable to call for help, their radio will alert you of potential problems.
- **Network Management:** Monitor, manage and report on your system's usage to minimize downtime and ensure optimal Performance.



**MINE THE RIGHT
SOLUTION FOR
THE RIGHT USER
WITH MOTOTRBO**

- Supervisors using the DGM™8000 / DGM™5000 Series mobile radios gain from their ruggedness and durability. They need not miss calls when working in loud surroundings because Intelligent Audio ensures they are heard, and with GPS location and tracking, they can improve safety and efficiency by better coordinating work teams. Plus they can stay in communication, even when they leave their vehicles thanks to available Bluetooth® accessories.
- Security personnel benefit from the safe and reliable communications solution of DGP™8000 / DGP™5000Series portables, combined with accessories such as a 2-wire surveillance kit. Should a situation arise, software applications such as man down enhance safety by automatically notifying dispatch when the radio moves into a horizontal position or when movement is not detected for a period of time when on a patrol. So even if your staff can't communicate their need for help, their radios can.

Work longer shifts with long-lasting batteries.

When work calls for long shifts, you can rely on MOTOTRBO to keep you going and keep you connected thanks to its enhanced battery life. Rest assured that your digital TDMA two-way portable radio will operate up to 40% longer between recharges compared to analog radios.

With our leading-edge IMPRES smart energy technology, your radio's battery communicates to its charger to automate battery maintenance. So your radios are always charged and ready to go the moment you need them.

Rely on a radio that works as hard as you do.

Your workers operate in harsh conditions and tough environments. Their two-way radios need to be rock-solid. With MOTOTRBO, they are. When you choose MOTOTRBO, you choose a radio that meets the most demanding specifications including IP57 for submersibility in water (portable models), and U.S. Military 810 C, D, E and F. And if you're dealing with flammable gas, vapors, or combustible dust, our "intrinsically safe" radios are ideal.

MOTOTRBO RELIABILITY AND SECURITY:

Exceptionally clear audio, even in loud environments

Data access, such as text message when it's convenient and safe

Water submersible, rock-solid durability and proven ruggedness

Extended battery life for long work shifts

Hands-free accessories to keep workers focused on the job

For more information on how to improve response time with MOTOTRBO, visit www.motorolasolutions.com/caribbean/mototrbo

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MOTOTRBO
REINVENTING
DIGITAL