



KEEP MINING KEEP MOVING

Everlasting Connectivity for the
Ever-changing Mining Industry



The mining industry is at yet another crossroads in its hundreds of years of history. To stay profitable amidst technology changes, the industry is embracing automation, unmanned operations, and decarbonization. At the same time, it must confront a multitude of internal and external challenges.

The Ever-changing Landscape in the Mining Industry

Internal Challenges

Changing terrains-
mining deeper underground,
digging farther into mountains

Changing conditions-
flooding, toxic gases, explosions,
mine collapses

Changing technologies-
automation, remote controlling,
decarbonization

External Challenges

Evolving cyberthreats-
As mining equipment gets connected,
cyberthreats are not affecting IT
only but also OT

Evolving energy diversity-
Embracing net zero calls for renewable
energy and more complex grid
management

Evolving mining commodity selection-
Fast deployment and adjustments to
absorb market fluctuations in mineral
demand

Your One-stop Shop: Addressing Diverse Connectivity Needs in One Go

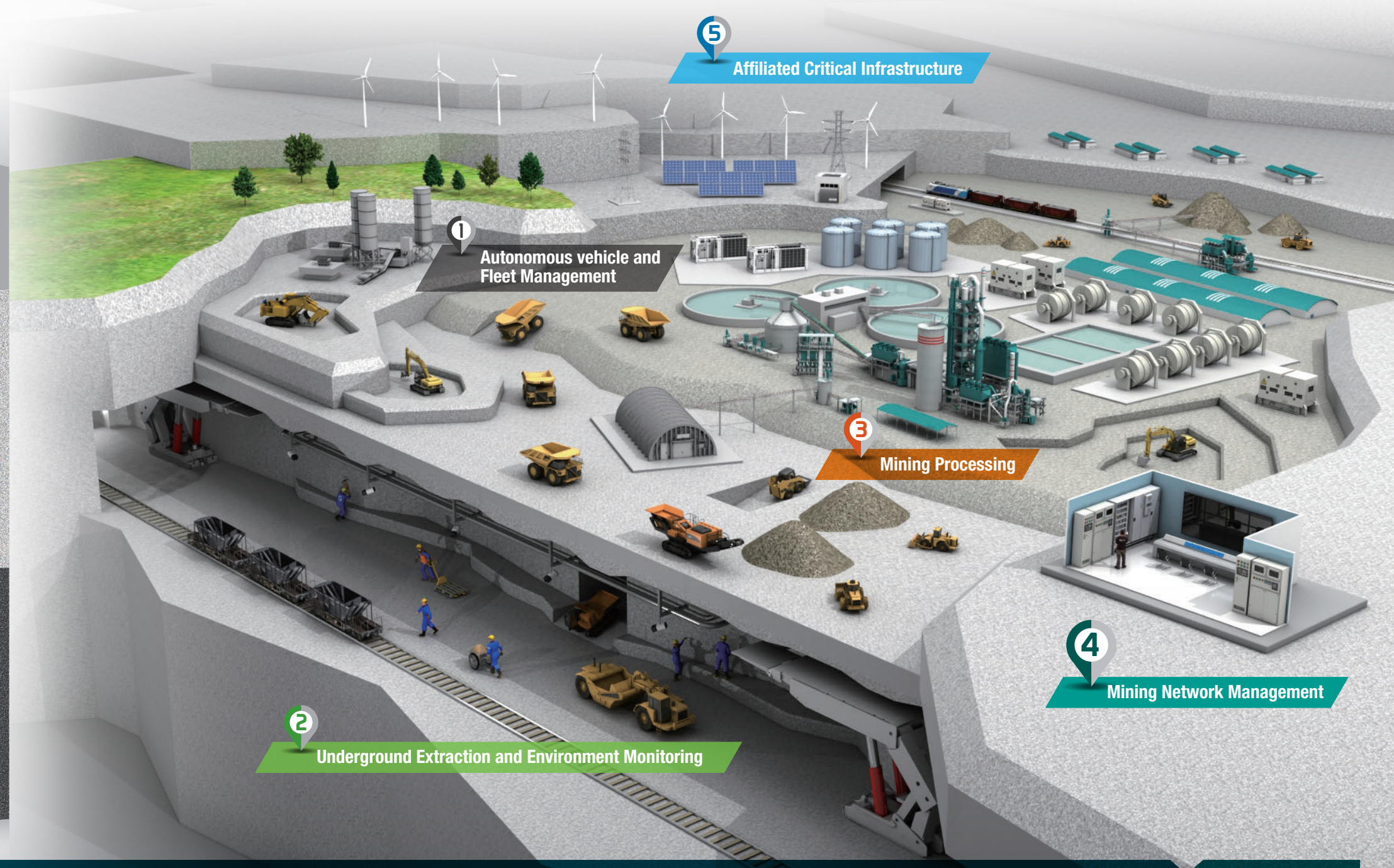
Moxa facilitates agile responses to diverse
changes in the mining industry

Be Agile Today:

- > **Availability**
From wired and wireless connectivity to high bandwidth, advanced redundancy, and roaming capabilities for industrial networks
- > **Visibility**
Full visibility of wired and wireless devices from field sites to remote control centers
- > **Interoperability**
Multiple protocols and edge computing fulfill OT/IT data convergence

Be Agile for the Future:

- > **Cybersecurity**
Strengthen cybersecurity in OT networks and comply with IEC 62443 for IT/OT convergence
- > **Energy Diversity**
From renewable energy, energy storage to smart grids and microgrids, we are experts in critical infrastructure, empowering sustainable and hybrid power supply through stable communication



Your Trusted Partner in Automation

Moxa is a leading provider of edge connectivity, industrial computing, and network infrastructure solutions for enabling connectivity for the Industrial Internet of Things (IIoT). With over 35 years of industry experience, Moxa has connected more than 82 million devices worldwide and has a distribution and service network that reaches customers in more than 70 countries. Moxa delivers lasting business value by empowering industries with reliable networks and sincere service. Information about Moxa's solutions is available at www.moxa.com.

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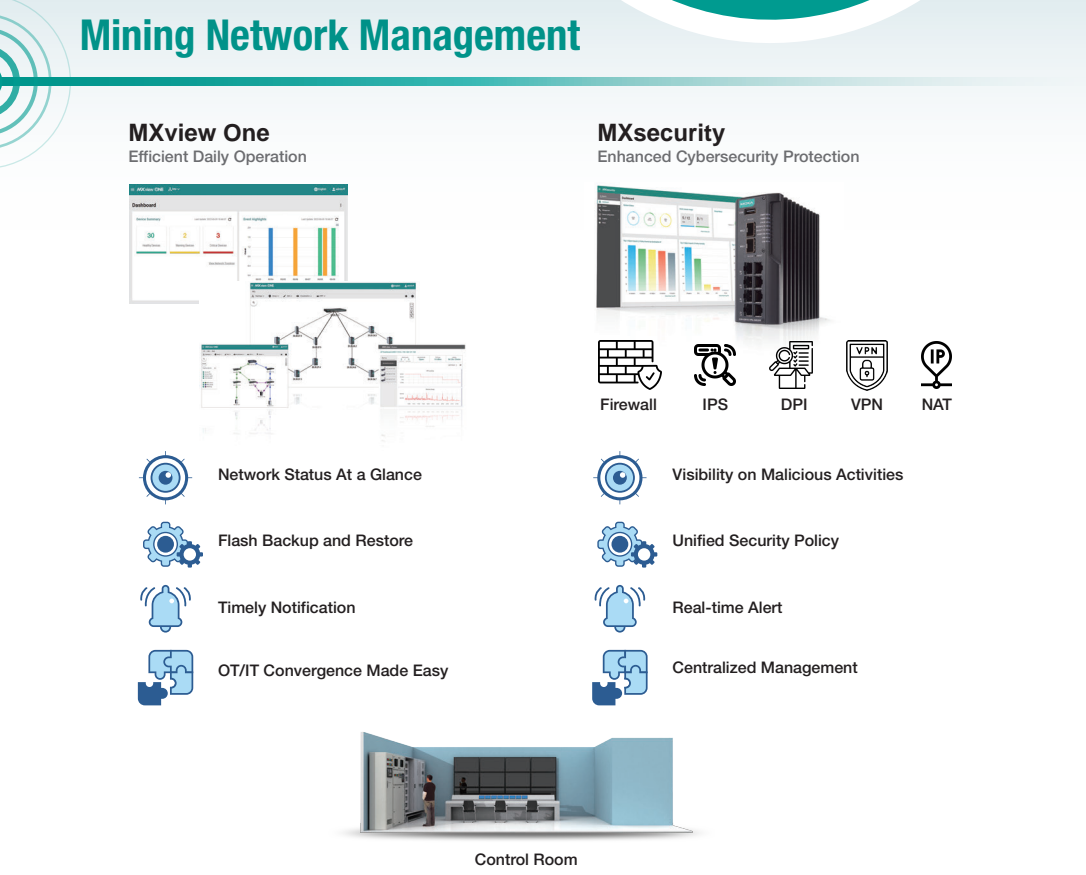
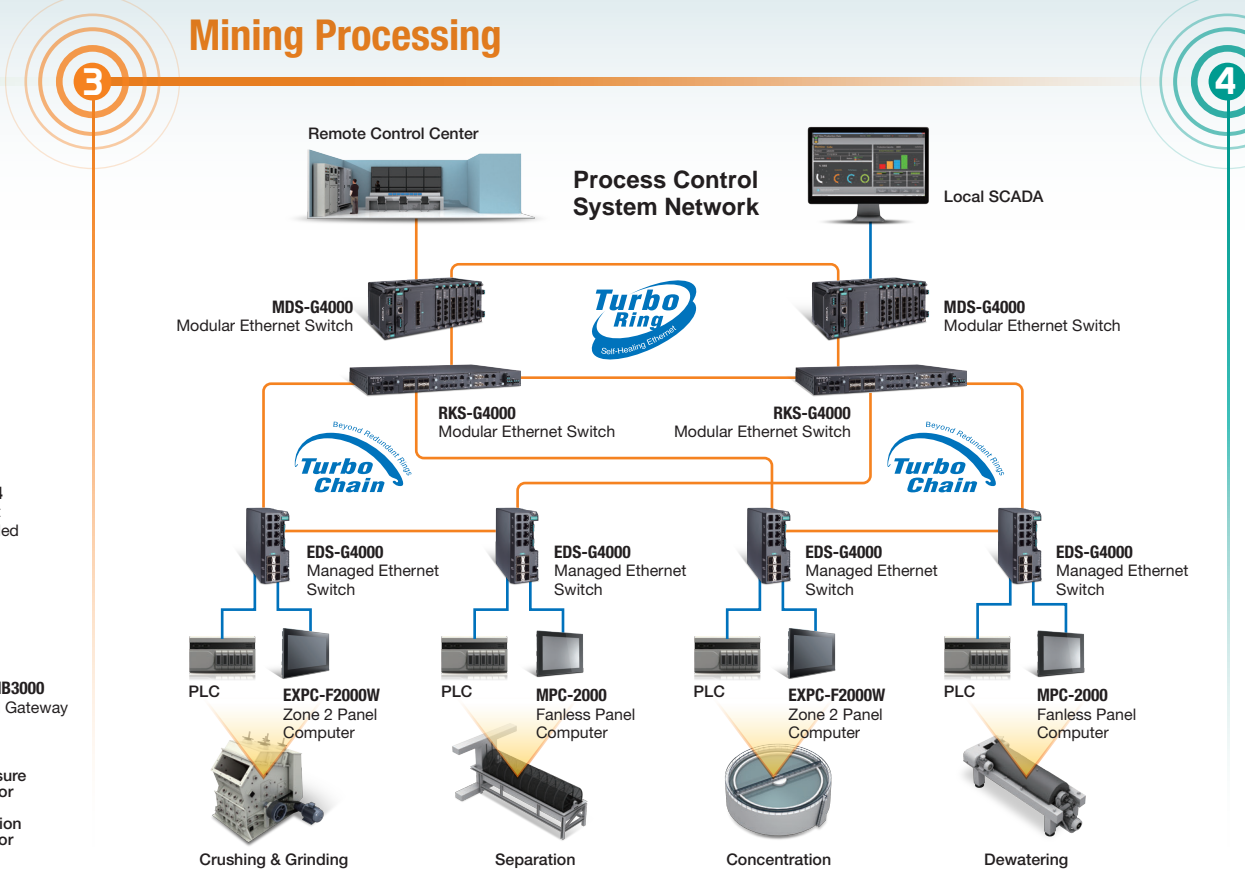
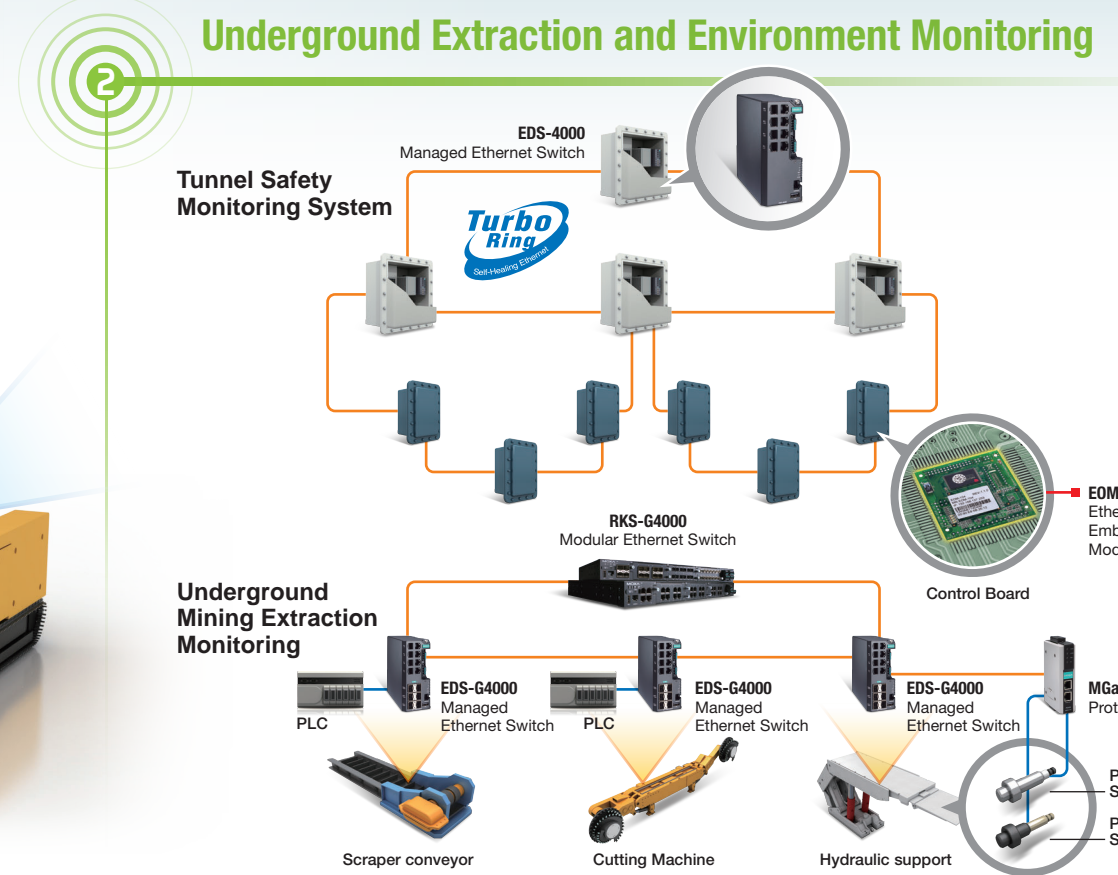
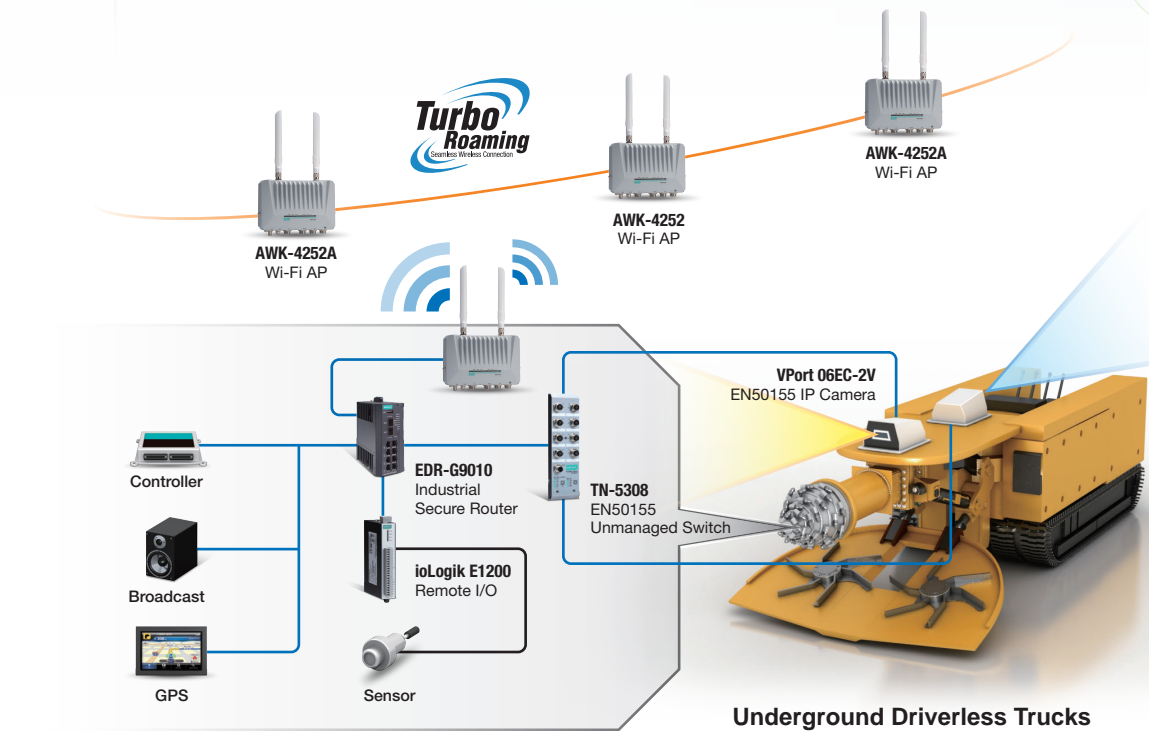
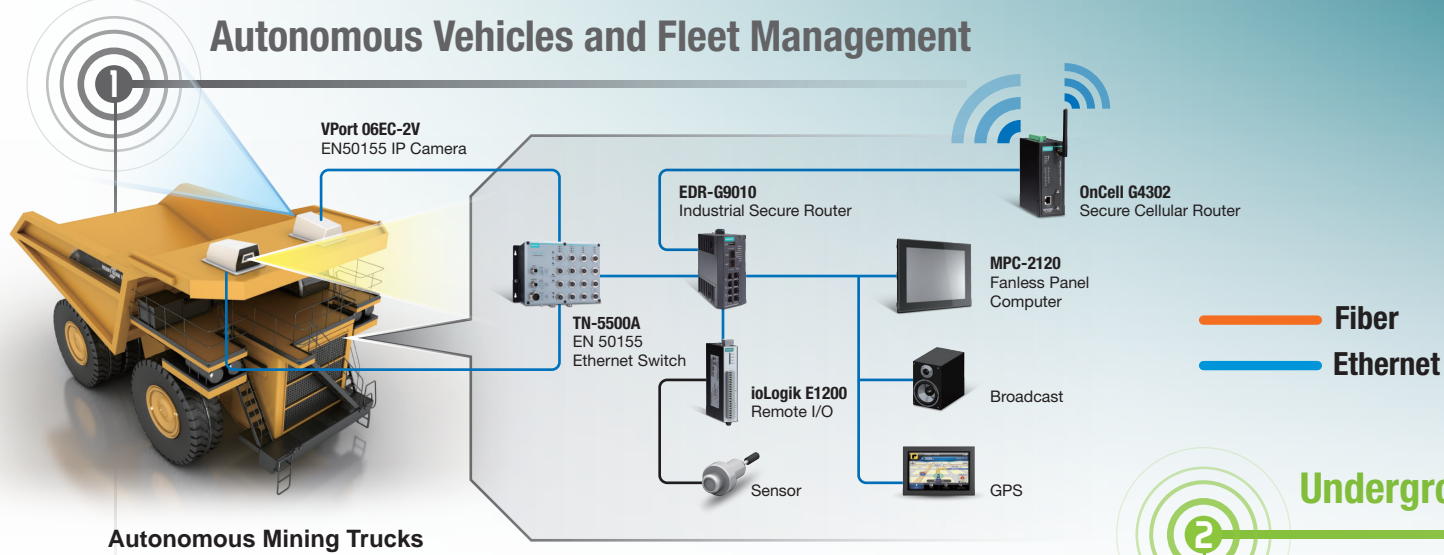
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We Are in Your Corner- With Real-time and Seamless Connectivity



Moxa Mining Highlight Products

1 Autonomous Vehicles and Fleet Management

- Wireless AP/Client AWK-4252A
- Cellular Router OnCell G4302
- Fanless Panel Computer MPC-2000
- Secure Router EDR-G9010
- EN 50155 Ethernet Switch TN-5500A
- EN50155 IP Camera VPort 06EC-2V

2 Underground Extraction and Environment Monitoring

- Modular Ethernet Switch RKS-G4000
- Managed Ethernet Switch EDS-4000
- Ethernet Embedded Module EOM-104
- Protocol Gateway MGate MB3000
- Remote I/O ioLogik E1200

3 Mining Processing

- Modular Ethernet Switch MDS-G4000
- Managed Ethernet Switch EDS-4000
- Secure Router EDR-G9010
- Fanless Panel Computer MPC-2000
- Zone 2 Panel Computer EXPC-F2000W

4 Mining Network Management

- Modular Ethernet Switch MDS-G4000
- Ethernet Switch EDS-G4000
- Secure Router EDR-G9010
- Network Management Software MXview One
- Network Security Management Software MXSecurity

5 Affiliated Critical Infrastructure

- QR Code: Moxa Solution for Power
- QR Code: Moxa Solution for Rail
- EN 50155-3
- IEEE 1613
- IEC 60255
- IEC 61850-3
- EN 50121-4
- IRIS Certification