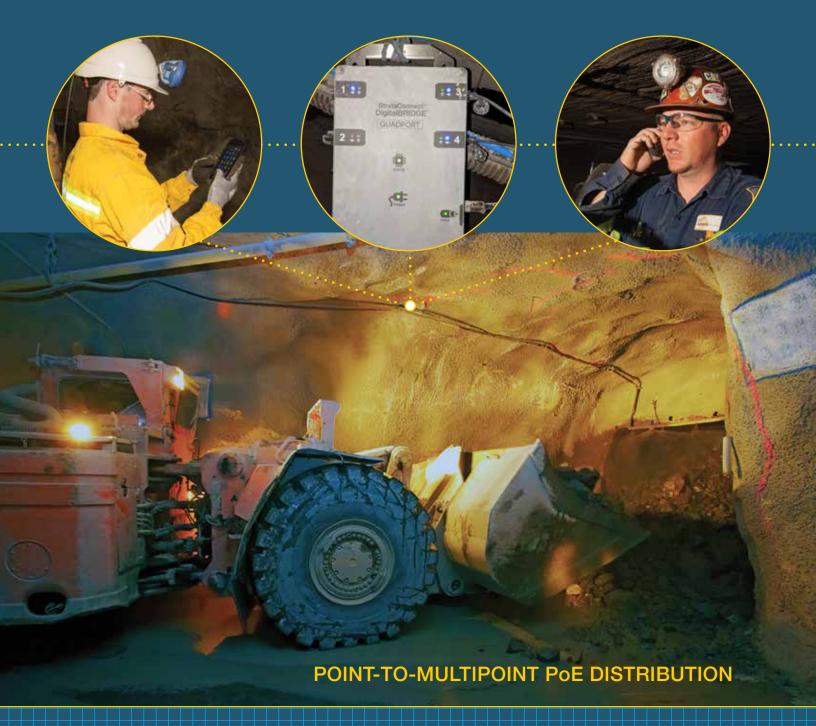
### StrataConnect<sup>™</sup> DigitalBRIDGE<sup>™</sup>

BRIDGING POWER & DATA TO THE EDGES OF YOUR MINE





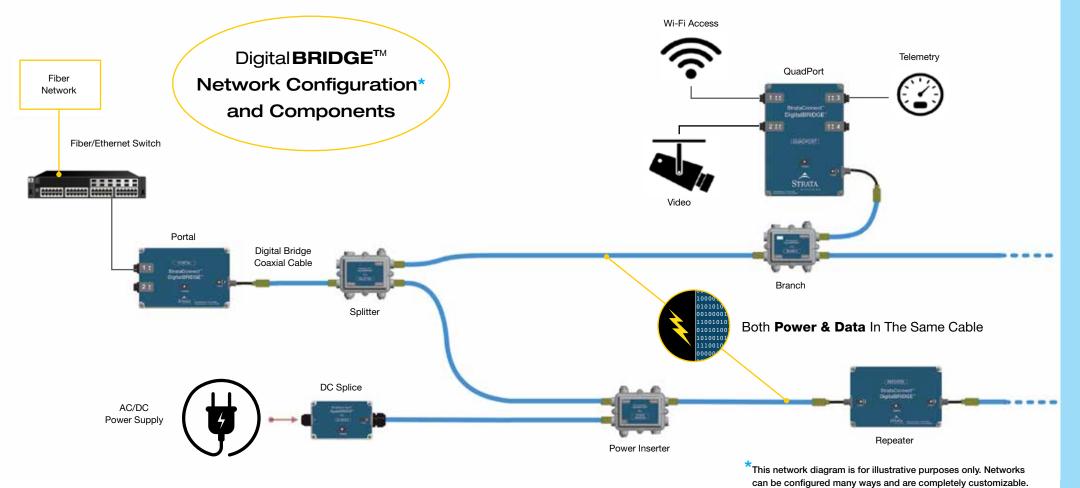
POWER | CONNECTIVITY | DEPLOYMENT











### **Components:**

- Portal Bridge between the existing network and DigitalBRIDGE.
- QuadPort Four (4) Power-over-Ethernet (PoE) ports to supply power and data backhaul for the inclusion of PoE end-point devices.
- Power Inserter Places DC power onto the coaxial cable for operation of system components and end-point devices.
- Repeater Digitally regenerates the data signal enabling cable segments to be extended indefinitely.
- DC Splice Adapts regular DC power cable to coaxial cable format. Protects the power supply from short circuits and excessive voltage.
- **Branch** Taps a portion of the power and data signal to enable a QuadPort to be spliced into the line.
- **Splitter** Evenly divides the coaxial cable so the system can proceed down multiple headings.

### **Specifications:**

### PoE Cable:

- Low Smoke Zero Halogen (LSZH) sheathing designed for underground applications
- Flooded cable for reliable long term operation in wet or in humid environments
- Ultra-low resistance cable (ULR)
- Transient protection

### **Connectivity 10/100/1000 Ethernet**

- VLAN & QoS Support
- LLDP / CDP
- AVB / PTP Support

### **Power**

- PoE & PoE+
- Direct Current (DC): 24 to 60 volts DC









### StrataConnect™ DigitalBRIDGE™

BRIDGING POWER & DATA TO THE EDGES OF YOUR MINE

## POINT-TO-MULTIPOINT POE DISTRIBUTION

StrataConnect DigitalBRIDGE™ is a point-to-multipoint Power-over-Ethernet (PoE) digital network for underground applications. It delivers both power and high speed data over a single coaxial cable to any location where digital end-point devices are desired. DigitalBRIDGE™ provides data speeds and capabilities comparable to fiber and can be used for Voice-over-IP (VoIP) communications, Wi-Fi and cellular access, video, telemetry, tracking, tele-remoting and more.

# Power and Connectivity where you need it, when you need it.

DigitalBRIDGE™ is simple to install and maintain, and is fully recoverable. Network management can be completed by on-site personnel, without the need for specialized technicians. Utilizing off-the-shelf tools and standard procedures, personnel can cut and splice the coax cable to install or remove PoE end-point devices anywhere along the network.

DigitalBRIDGE™ is an ideal solution for extending digital coverage beyond the reach of fiber, with the option to travel in multiple directions. It can also be used as a stand-alone system.

### **CAPABILITIES**

- Wi-Fi access VoIP
- LTE/5G cellular
- Voice communication
- Environmental monitoring and remote control (pumps, fans, sensors)
- Gas detection
- IP cameras
- Tele-remote operation
- Fleet management
- Refuge station connectivity
- Cisco Discovery Protocol (CDP) Support
- Damaged fiber replacement

### **BENEFITS**

- Power and data in single cable\*
- Flexible and changeable cable lengths no premium for short runs
- Up to 6500 feet (2000m) without a repeater or dedicated power source
- Power injected at any point and travels in both directions
- Flexible placement of end-point devices
- Simple to reconfigure layout and change end-point device locations
- Not proprietary to specific brands of end-point devices
- No need for specialized technicians fully manageable by on-site personnel
- Save time in basic planning, easy installation and low maintenance
- Fully recoverable
- \* Direct Current (DC): 24 to 60 volts DC

  Up to 1 Gbps physical layer speed; typical end-to-end TCP throughput = 400-700 Mbps



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