

StrataConnect™ DigitalBRIDGE™

BRIDGING POWER & DATA TO THE EDGES OF YOUR MINE

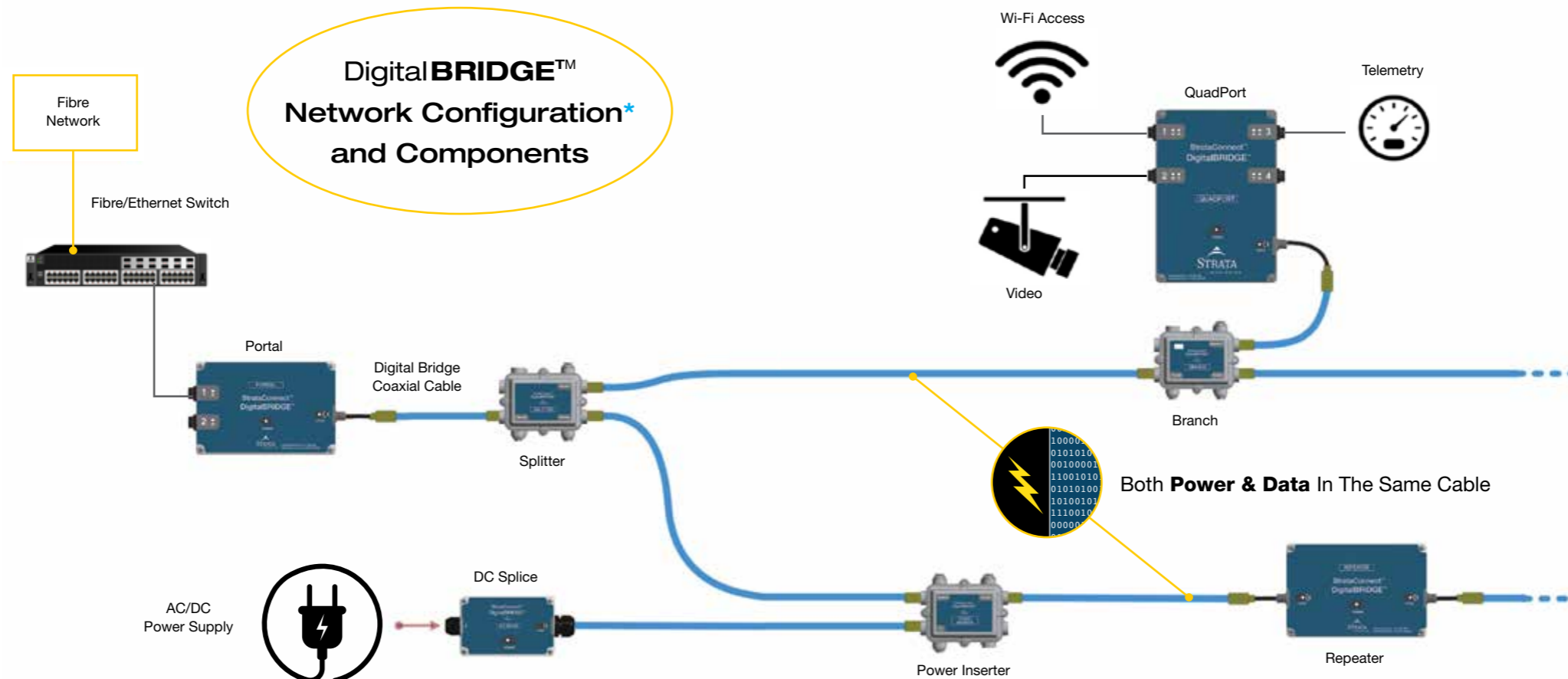


POINT-TO-MULTIPOINT PoE DISTRIBUTION



POWER | CONNECTIVITY | DEPLOYMENT

Powered by **RFI Technology Solutions**



*This network diagram is for illustrative purposes only. Networks can be configured many ways and are completely customisable.

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



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 fibre 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 specialised technicians. Utilising 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 fibre, with the option to travel in multiple directions. It can also be used as a stand-alone system.

CAPABILITIES	BENEFITS
<ul style="list-style-type: none"> • Wi-Fi access - VoIP • LTE / 5G cellular • Voice communication • Environmental monitoring and remote control (pumps, fans, sensors) • Gas detection • IP cameras • Backhaul from ore drive to surface • Tele-remote operation • Fleet management • Refuge station connectivity • Cisco Discovery Protocol (CDP) Support • Damaged fibre replacement 	<ul style="list-style-type: none"> • Power and data in single cable* • Flexible and changeable cable lengths – no premium for short runs • Up to 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 specialised technicians – fully manageable by on-site personnel • Save time in basic planning, easy installation and low maintenance • Fully recoverable <p>* Direct Current (DC): 24 to 60 volts DC Up to 1 Gbps physical layer speed; typical end-to-end TCP throughput = 400-700 Mbps</p>



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