

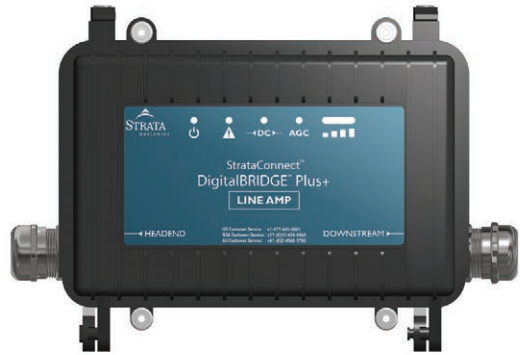
StrataConnect™ DigitalBRIDGE Plus+™

ADDING ETHERNET TO LEAKY FEEDER



POWER | ETHERNET | RADIO

Components:



DigitalBRIDGE Plus+ VHF Bi-Directional Amplifier

- Fully interoperable with 3rd party line amps
- Functions in all VHF band frequencies
- Unique Gain Control
- Passes Ethernet Signal
- Recommended placement every 1000 to 1600ft (350-500m)*



DigitalBRIDGE Plus+ VHF Bi-Directional Amplifier with Ethernet

- Two Ethernet ports providing an uplink to existing fiber networks and/or data connection to any Ethernet compatible equipment such as pumps, fans, environmental sensors, cameras, wireless networks, electrical switchgear, PLC's etc.
- Can provide backhaul to Cisco switch



Gain Management Controller

Automatically tunes all Line Amps along the network



Ethernet Coupler

Enables QuadPorts to be spliced into the cable wherever they are needed. Passes VHF radio channels.



Splitter

Evenly divides both the VHF radio signal and the high-speed broadband data signal to break into multiple directions.



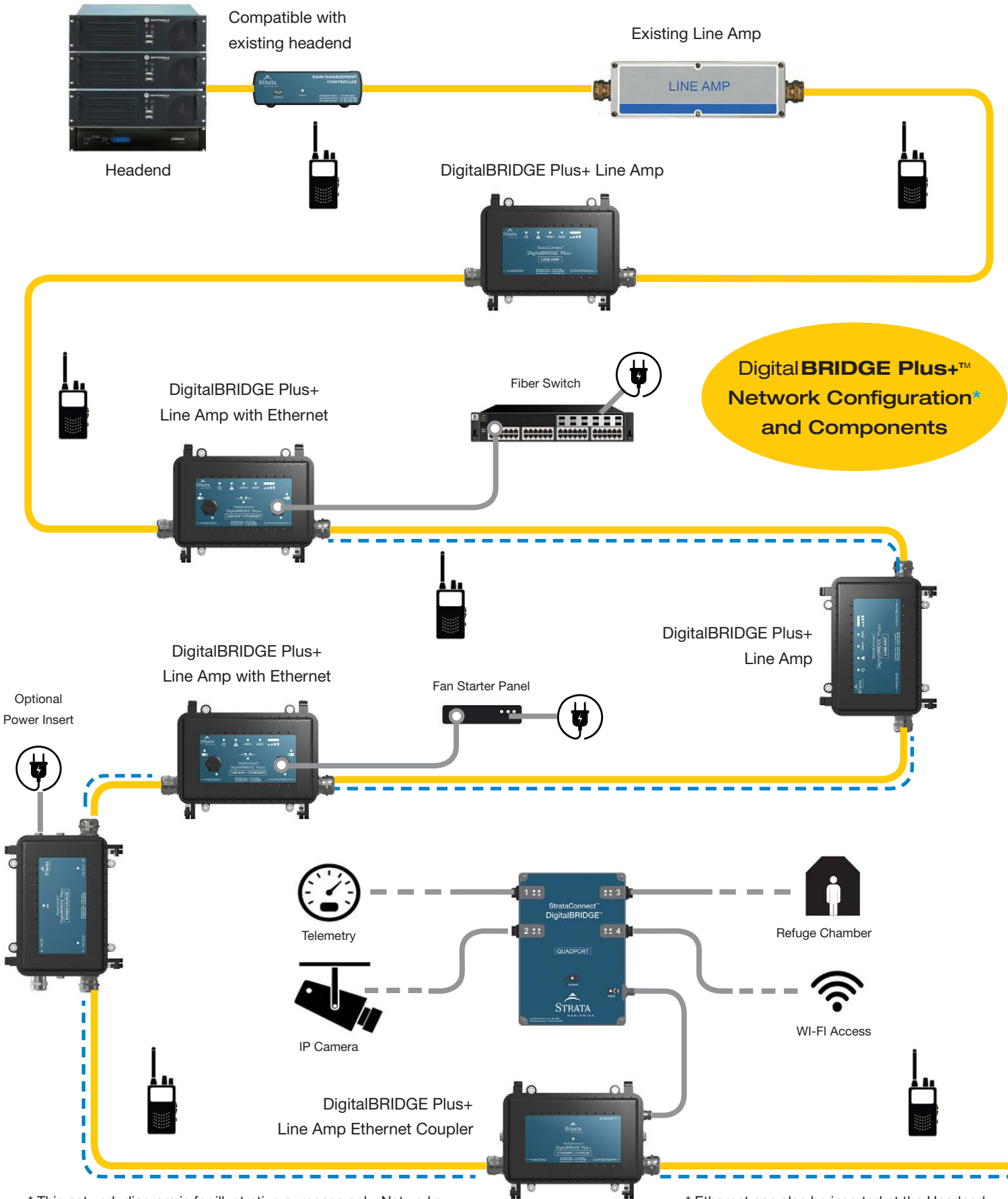
QuadPort

Four (4) Power-over-Ethernet (PoE) ports to supply power and data backhaul for the inclusion of PoE end-point devices.

*Distance dependent on PoE connections

Specifications:

- Digital: Up to 1 Gbps physical layer speed; typical end-to-end TCP throughput = 400-700Mbps
- Analog max gain > 25dB
- 25 MHz bandwidth in leaky feeder up and down link frequencies
- RF power output = +9dBm
- Direct Current (DC): 24 – 48 volts



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

* Ethernet can also be inserted at the Headend.

ADDING ETHERNET TO LEAKY FEEDER

Power | Ethernet | Radio

Leveraging the convenience and dependability of leaky feeder networks, DigitalBRIDGE Plus+™ integrates the power of DigitalBRIDGE™ technology to enable high-speed Ethernet data, DC power and a full spectrum of VHF radio frequencies to be transported over a single cable network.

Start where you are.

Upgrade an existing leaky feeder infrastructure with the simple inclusion of DigitalBRIDGE Plus+™

high-quality bi-directional line amplifiers or build from scratch the most sophisticated leaky feeder network on the market. Insert Ethernet at the headend, or underground by connecting leaky feeder to existing fiber networks via a DigitalBRIDGE Plus+ line amplifier with Ethernet. Ethernet end-point devices can be installed anywhere along the cable receiving power and data connection through the DigitalBRIDGE Quadport.

CAPABILITIES	BENEFITS	
<ul style="list-style-type: none"> • Analog and digital radio, high-speed Ethernet and power distribution on a single cable • Wi-Fi access – VoIP • Environmental monitoring and instrument remote control (Pumps, fans, sensors) • Gas detection • IP cameras • Tele-remote operation • Fleet management • Refuge station connectivity • Compatible with proprietary network management systems 	<ul style="list-style-type: none"> • Single coaxial cable network – Power, Ethernet & VHF • Fully interoperable with existing leaky feeder components for improved performance • Ethernet access on existing leaky feeder network • Power end-point devices without separate power source using the QuadPort • Flexible placement of end-point devices • Simple to reconfigure and change end-point device locations 	<ul style="list-style-type: none"> • Power injected at any point along cable - travels in both directions • Auto level control for consistent gain management, regardless of the number of channels operating simultaneously • Multi-point distribution • Bi-directional diagnostics and voltage detection - segment by - segment problem location • Fully manageable by on-site personnel



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