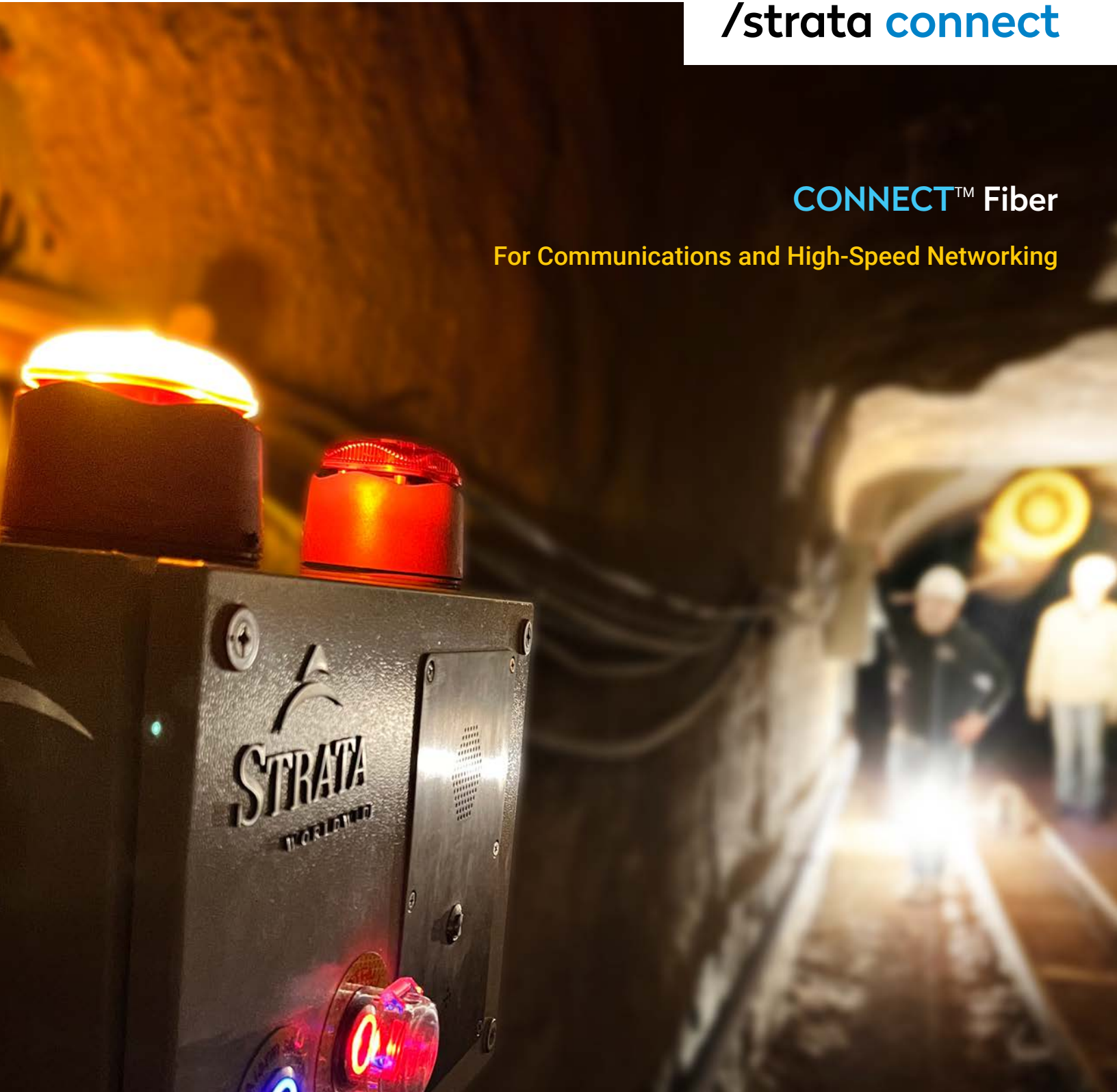




[/strata connect](#)

CONNECT™ Fiber

For Communications and High-Speed Networking



COMMUNICATIONS & NETWORKING

CONNECT™ Fiber, an innovative multifunctional fiber-based network designed to enhance worker safety and increase operational and productivity efficiency.



StrataConnect Server & GUI

StrataConnect Server and Graphical User Interface (GUI)

Facilitates communication between underground and surface personnel by enabling the data from the underground devices to be visible and accessible at the surface.

CONNECT Fiber Wi-Fi AP



Bluetooth Tracking: Integrated Bluetooth enables accurate personnel and equipment tracking



IP Radios: Similar to traditional two-way radios, Wi-Fi radios provide full duplex communication for one-on-one and one-to-group communication



SmartPhones, Tablets, Laptops: Any standards-compliant IEEE 802.11 device can be used. SmartPhones can be used as push-to-talk radios and retain SmartPhone functionalities.



Wi-Fi AP



Data Unit



IP Phone



CCTV IP Camera



Atmospheric Monitoring



Alarm Intercom



Bluetooth Tracking



COMPONENTS



Data Units are the heart of the system which provide both Fiber and Ethernet connectivity. Configuration is flexible, but usually contains four (4) x 1Gbps SFP ports and up to 16 x PoE+ (802.3at) ports for maximum connectivity. All PoE devices connect using IP67-rated Cat6 plugs and cables.



Alarm and Intercom Modules are emergency alert and response systems that enable broadcast alarms and push-to-talk communication with the surface. When the alarm is activated, surface operations are immediately notified.



Wi-Fi Access Points (APs) deliver high-performance 802.11ax Wifi6 access with optional Bluetooth® connectivity. Omni-directional antenna allows for 150m of strong signal range in both directions.



The **Strata IP67 VoIP telephone** is rugged and durable, featuring a full keypad with memory and a 10-button programmable speed dial. The phone incorporates a noise-canceling microphone and a loud ringtone.



Environmental monitoring and gas detection systems provide real-time reading and warning alerts. With remote monitoring and control, surface operators can manage the monitoring systems from the surface.



CCTV Cameras, dome or bullet-style units, can be easily connected to the network for live streaming of video surveillance underground.



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