

SPITFIRE®

- BPLM modems fitted within each drill rig provide comms over LV/HV cables to distribution board
- BPLM fitted within distribution board transfers data to control room on surface via fibre or ethernet



Distribution Board



Jumbo Pump Starter



Jumbo Pump Starter



Jumbo Pump Starter



Powerful Broadband Powerline Modem (BPLM) range promotes assisted automation and improved mining operations in complex environments underground

Suitable for
Hardrock and
Softrock



SPITFIRE®

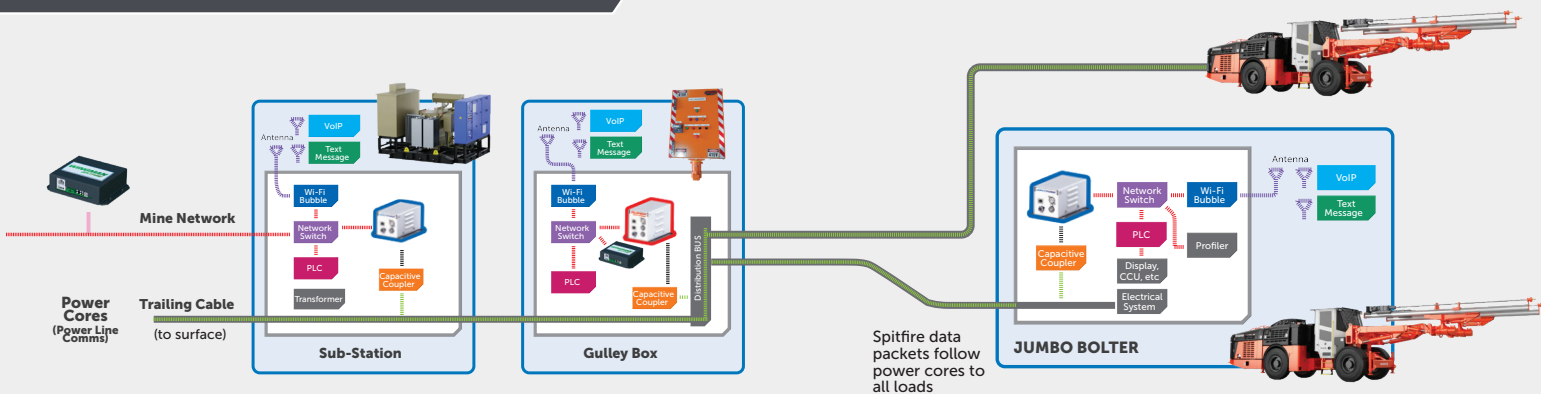
Creates a reliable network connection across multiple machines in order to transmit data between equipment and the surface



**SUPER
SPITFIRE®**

Extends the communications network to work over longer distances

HARD ROCK MINING



NETWORK TECHNOLOGY

Network challenges in underground mining include confined spaces, lack of GPS, explosive atmosphere, weak strata and complex mining machinery. As such, use of powerline for communications is best for underground, tethered vehicles.

Network	Open Cut	Underground Hard Rock	Underground Soft Rock
Wide Areas	●		
Confined Spaces		●	●
No GPS		●	●
Chemical Attack		●	●
Explosive Atmosphere			●
Weak Strata			●
Complex Mining Machinery			●

Technology	Ethernet	Fibre	Radio	Powerline
Data Rate		Best		
Distance	Worst	Best		
Environmental Survival		Worst		Best
Drop-Outs			Worst	
Infrastructure Burden				Best
Mobile			Best	

Harnessing Technology to Keep Miners Safe

NAUTITECH® is an Original Technology Manufacturer (OTM) and global provider of smart electronic and software solutions for OEMs and mine sites in underground mining.

Scan QR Code to watch the Spitfire in action

Nautitech's Spitfire Broadband Power-line modem range

Australian Patent: 2016 356 720
United States Patent: 10,735,049
European Union Patent: 3378165
South African Patent: 2018/02984

