

# Extending your reach



## COMPACT NETPORT IS NODE FOR LONGWALL: Enable your networks

The Compact NetPort IS for longwall machine, was developed to meet specific needs where only MSHA-certified products must be used in order to ensure the safety of miners working in dangerous conditions where flammable gasses or coal dust is present and the risk of sparks and explosions is always a major safety concern. In addition, the Compact NetPort IS for longwall machine offers the following features:

- Robustness and durability
- Open and non-proprietary TCP/IP-based network architecture
- Integrated data communications
- Above ground network management software for below-ground system monitoring
- Capability for Wi-Fi tracking of personnel, specialized toolsets and equipment
- Hardwired MSHA-approved fiber, Single Mode or Multi Mode
- MSHA certification - Title 30 Code of Federal Regulations, Part 18.

The Compact NetPort IS for longwall machine is a 802.11a/b/g access point with a built-in Ethernet bridge. It transmits and receives data via two antenna ports from a single radio, operating in the 2.4 GHz and 5.8 GHz bands, two fiber optic ports, and an RS485/RS422 serial port. The two antenna ports are N-female type connectors, to which antenna cables and antennas are fitted to allow better propagation of the wireless signal. The Compact Node for Longwall machine must be evaluated and accepted as part of MSHA approved permissible machine or system to be used in a gassy environment



### Specifications:

#### Interfaces:

Dual Radio: 2.4GHz  
802.11 b/g & 5GHz 802.11a  
Two fiber optic ports: Multi-mode or Single-mode  
Serial Port: RS422 for debugging

#### Antennas:

• 2.4 GHz and 5GHz , N-Type Male

#### Power:

- Supply Voltage: 11V DC-13V DC
- Supply Current: 2A DC typical
- Minimum Output Current: 3.5A
- Output Over-Current Protection 4A

#### Dimensions:

• H: 300mm (11.810"), W: 235mm (9.250"), D: 93mm (3.660")

• Weight: 4.40 kg, (9.8 lbs)

#### Operating Ambient Temperature:

• 0°C to 25°C

#### Enclosure:

• IP67 Compliance

#### Approvals:

• Must be evaluated and accepted as part of MSHA approved permissible machine or system

**NLT Corporate** 33 Laird Drive, Toronto, Ontario, Canada M4G 3S9  
Tel. (416) 425 6559 • Fax (416) 425 5960 • E-mail: info@nltinc.com

**NLT Chile LTDA** Espronceda 539, Ñuñoa -Santiago de Chile  
Tel. (56-2) 343 05 06/343 05 09 • Fax (56-2) 274 23 90 • E-mail: info@nltchile.cl

**NLT Australia PTY Ltd.** Unit 1 & 2, 22-26 Cessna Drive, Caboolture, QLD 4510 M4G 3S9  
Tel. 011 +61 7 5495 2944 • Fax 011 +61 7 5495 2966 • E-mail: info@nltinc.com.au

# www.nltinc.com