



**MATRIX**

# Ethernet Extender Datasheet



**N-Connex. Networks for harsh environments.**

## Overview

The NLT Ethernet Extender provides a convenient system for overcoming the 100 metre limitation of ethernet connections. The extender uses active PoE to self-power and extend a PoE network. The devices are easy to install and mount and are designed for harsh environments, with a rugged package and an IP67 rating. Each Extender adds 100 metres to the range of a Power-over-Ethernet connection and can be used in conjunction with N-Connex Distribution and Edge modules to provide extended Gigabit network and power connectivity to a large area.

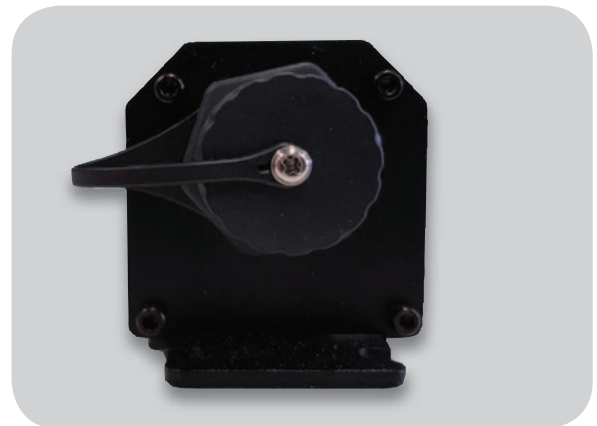
The extenders may be daisy chained to further extend Gigabit PoE+ range. Up to 3 extenders can provide up to 400 metres of additional range, while still providing up to 4 watts of power to PoE peripherals such as wireless access points, IP cameras, or airflow sensors. When combined with the NLT N-Connex Bolt wireless access point and an N-Connex System, wireless coverage can be provided to an entire mine.

The Extenders include IP67 rated Cat6 receptacles to ensure they can be easily connected with NLT Cat6 Pre-Terminated Ethernet cables and maintain the overall IP67 rating for the N-Connex system.



## Key Features

- Gigabit PoE+
- Adds 100m of range per extender
- Up to 3 can be used in series (PoE)
- Maximum range: 400 metres (For NLT Bolt)
- Provides 4W at 400m range
- Provides up to 22W beyond first extender
- Operates from -40C to +45C
- Rugged Metal Casing
- Easy to mount



Matrix is the authorized sales and service distributor of NLT N-Connex in the United States and Africa.

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## Specifications

<b>No. of Channels</b>	1
<b>Pass Through Data Rates</b>	10/100/1000 Mbps half / full duplex
<b>PoE input</b>	Pin Assignment and Polarity: Both 1/2 (-), 3/6 (+) and 7/8 (-), 4/5 (+)
<b>PoE output</b>	Pin Assignment and Polarity: 1/2 (-), 3/6 (+) Output Power: up to 22W
<b>Connectors</b>	Shielded RJ-45, EIA 568A and 568B
<b>Network Cables</b>	Shielded category 5 (or higher)
<b>Dimensions</b>	216mm x 58.5mm x 38mm
<b>Weight</b>	613g
<b>Environmental Conditions</b>	Operating Ambient Temperature: -40 to 45 @90%, Non-condensing Storage Temperature: -40 to 70 @95%, Non-condensing
<b>Regulatory Compliance</b>	IEEE 802.3af (PoE), IEEE 802.3at (PoE+) RoHS Compliant, CE, FCC
<b>Electromagnetic</b>	FCC Part15, Class B

## Maximum Length

<b>PoE Device (PD)</b>	<b>PoE Injector or Switch IEEE802.3af (max 15.4W)</b>	<b>PoE Plus Injector or Switch IEEE802.3at (max 30W)</b>
IEEE802.3af class 1, no more than 4W	400m (3pcs PoE Extender)	Not Applicable
IEEE802.3af class 2, no more than 6W	300m (2pcs PoE Extender)	400m (3pcs PoE Extender)
IEEE802.3af class 0&3, no more than 12W	200m (1pcs PoE Extender)	300m (2pcs PoE Extender)
IEEE802.3at, no more than 22W	Not applicable	200m (1pcs PoE Extender)

## Product Part Numbers

<b>NC0800</b>	NLT Ethernet Range Extender 100m, Metal
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## System Accessories

<b>CONTACT MATRIX FOR PART NUMBERS</b>	RJ45 Cable, Pre-Terminated, Cat6, 20m
<b>CONTACT MATRIX FOR PART NUMBERS</b>	RJ45 Cable, Pre-Terminated, Cat6 Shielded 50m
<b>CONTACT MATRIX FOR PART NUMBERS</b>	RJ45 Cable, Pre-Terminated Cat6 Shielded 100m

*Note: Technical specifications are subject to change without notice.*

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