Distribution Module
Datasheet

N-Connex. Networks for harsh environments.

Overview

The Distribution Module provides connectivity to a one (1) Gigabit Ethernet backbone. The module includes eight (8) managed PoE ports, two (2) Non-PoE Ports and four (4) Single Mode Fibre Ports to enable a range of solutions and network topologies.

The Distribution Module can actively manage 200W (at 25°C) of total Power over Ethernet (PoE) supply across the various Ethernet ports. This enables a large range of high power consuming PoE devices to be simultaneously connected.

When combined with the N-Connex Bolt Access Points we can achieve strong and reliable WiFi coverage in underground mines, tunnels and heavy industrial facilities. NLT's pre-terminated, rugged fibre connects multiple Distribution Modules to form a redundant network topology.

As with all N-Connex modules it is fit-for-purpose and is designed for harsh environments. The module can be mounted on the NLT proprietary quick fit frame or be mounted as a standalone device.

The Distribution Module supports many advanced network standards to optimize network performance, ease maintenance issues and secure network safety.

Key Features

- Eight (8) 10/100/1000 Mbps RJ45 POE Ports
- Two (2) 10/100/1000 Mbps RJ45 Non-POE Ports
- Four (4) Fibre Optic Single Mode Ports
- Total PoE budget of 200W at 25°C or 160W at 40°C
- L2+ features provide better manageability, security, QoS, and performance
- Support for Spanning Tree STP (802.1d) and RSTP (802.1w)
- 52 Gbps Switching Capacity
- Optional Battery Backup Power
- Network Management Capabilities
- IP67 protected enclosure
- Standard or quick-fit rail mounting

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

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Specifications

Standards	IEEE 802.3/3u/3ab 10/100/1000 Base-T Ethernet IEEE802.3af/IEEE802.3at POE IEEE 802.1q VLAN and IEEE 802.1p QoS STP(IEEE 802.1d) and RSTP(IEEE 802.1w)
Interface	8X 10/100/1000 Base-T POE ports 2X 10/100/1000 Base-T Non-POE ports 4X 1000M fibre optic single mode ports
L2+ Switching Features	802.1Q VLAN, Mirroring, Port isolation, IGMP Snooping, DHCP Snooping, LLDP, POE+ management, IP Source Guard, ARP inspection, ACLs etc.
Switching Capacity, Bandwidth	52Gbps
VLAN	Support up to 4K VLANs simultaneously (out of 4096 VLAN IDs) ; Port-based VLAN; 802.1q tag-based VLAN
Storm Control	Prevents traffic on a LAN from being disrupted by a broadcast, multicast, or unicast storm on a port
QoS, Hardware	Supports 8 hardware queues
Congestion Management	8 COS queues per port support strict priority and weighted round-robin (WRR)
Jumbo Frames	Frame sizes up to 9KB supported on Gigabit interfaces
MAC Table	Up to 8K MAC addresses
Total PoE Output Power	200W at 25°C or 160W at 40°C
Max PoE Power Per Port	15.4W (IEEE 802.3af) /30W (IEEE 802.3at)
Input Voltage	48VDC
Enclosure Protection Class	IP67
Unit Dimensions	460mm(L) x 257mm (H) x 197mm (D)
Unit Weight	8.1kg
Operating Temperature	-20°C to 40°C
Ambient Humidity	5% to 95% RH (non-condensing)

Product Part Numbers

NC0100	Distribution Module

Note: Technical specifications are subject to change without notice.

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