



Gigabit Network Interface Device (NID)

Reliable ESD Protection for Every Deployment

The Mimosa Gigabit Network Interface Device (NID) provides a simple, affordable way to protect your network from electrostatic discharge (ESD) events. Designed for exterior wall mounting, it creates a clean demarcation point between outdoor radio installations and indoor network equipment. With an IP54-rated enclosure, integrated cable sealing, and a secure fastening point, the NID is built to withstand real-world deployment conditions while maintaining a clean, professional install.

Added Protection. Increased Reliability.

While Mimosa radios include built-in Gas Discharge Tubes (GDTs), the NID adds an additional layer of protection at the network edge—helping safeguard power systems and connected equipment.

The result: improved network reliability, reduced equipment risk, and fewer service calls for operators in the field. It also supports installations that must meet local grounding and code requirements.

Fast, Straightforward Installation

The NID is designed for quick deployment with minimal effort.

- Connect a shielded CAT6 or CAT6A cable from the radio into the NID
- Run a second cable from the NID to the PoE injector or indoor network
- Ground the unit using a 14 AWG (or larger) wire to a grounding point

In just minutes, installers can add a critical layer of protection without adding complexity.

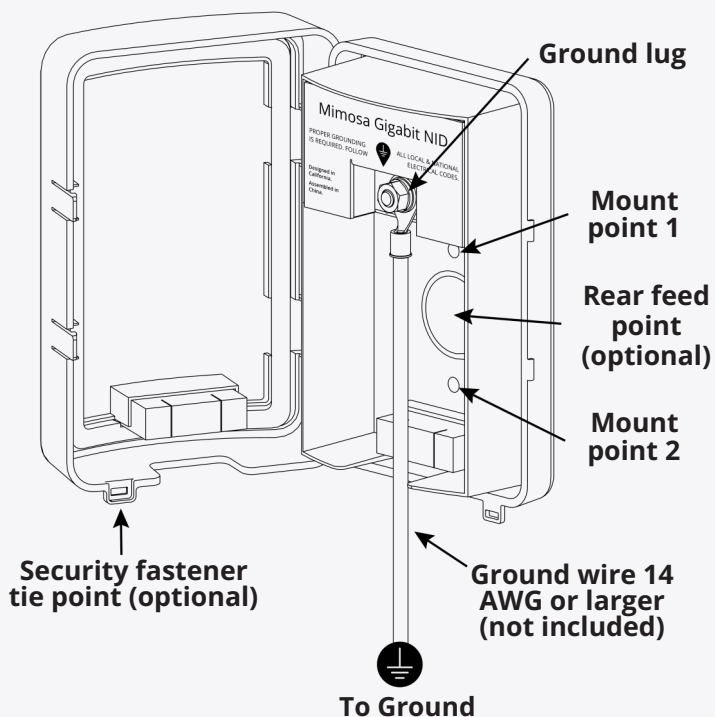
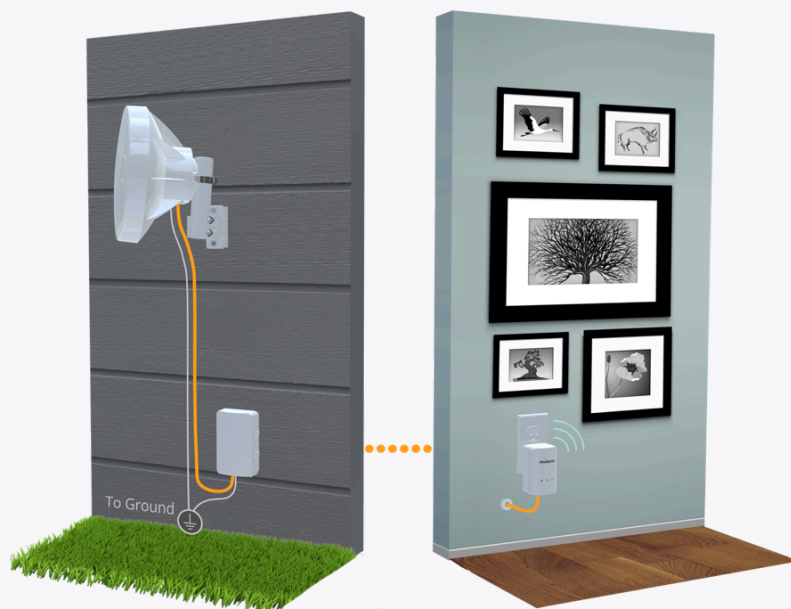


Key Benefits

- Protects network and power systems from ESD events
- Creates a clean, accessible demarcation point for troubleshooting
- Enhances overall system reliability and uptime
- Supports code-compliant grounding requirements
- Simple, low-cost addition to any deployment

Technical Specifications

- **Data Transfer Rate:** Gigabit rated
- **Connectors:** Two (2) RJ-45
- **Protection Mode:** Line-to-line and line-to-ground
- **Surge Arrestor:** GDT (Gas Discharge Tube)
- **DC Sparkover:** 90 V @ 100 V/s
- **Impulse Sparkover:** 550 V @ 1000V/ μ s
- **Impulse Discharge Current:** 10 kA
- **Capacitance:** < 1.0 pF @ 1 MHz
- **Mounting:** Wall mount. Two (2) screw mounting points for secure access to flat surface with optional rear feed point for clean installations.
- **Dimensions:** 42 mm (1.6") x 131 mm (5.1") x 84 mm (3.3")
- **Weight:** 0.13 kg (4.8 oz)
- **Operating Temperature:** -40 to +55 C
- **Humidity:** 5 to 100% condensing
- **Environmental Protection:** IP54
(dust and water intrusion protection)



Mimosa Networks, a wholly owned subsidiary of Radisys, is the global technology leader in wireless broadband solutions, enabling service providers to connect dense urban and hard-to-reach rural homes at a fraction of the cost of fiber. Mimosa Networks was acquired in 2023 by Radisys, the global leader in open telecom solutions. DS- 2026-04-NID.

ENVIRONMENTAL

Outdoor Ingress Protection Rating:	IP67
Operating Temperature:	-40°C to +55°C (-40°F to 131°F)
Operating Humidity:	5 to 100% Condensing
Operating Altitude:	4,420 m (14,500') maximum
Shock and Vibration:	ETS 300-019-2-4 calss 4M5

REGULATORY AND COMPLIANCE

Approvals:	FCC Part 15.407
RoHS Compliance:	Yes
Safety:	(Pending)

FEATURES

Dual SFP+:	10 Gbps Fiber via SFP+ cage. Single or multi-mode compatibility. (SFP insert modules not included)
Gigabit Ethernet:	10/100/1000 BASE-T
Dual Link Operation:	Dual 2x2 radios operating with independent asymmetric channel and link auto-adaption for each radio channel pair; Automatic load balancing of traffic across 2 non-contiguous channels (4 total MIMO streams)
Management Services:	Mimosa Cloud, MMP; SNMPv2 & Syslog legacy monitoring; HTTPS; HTML 5 based Web UI
Smart Spectrum Management:	Active scan monitors/logs ongoing RF interference across channels (no service impact); Dynamic auto-optimization of channel and bandwidth use
Security:	128-bit AES PSK with hardware acceleration
QoS:	4 classes of QoS, with user configurable priority queuing, weighted fair queuing, MIR, CIR, and rate limiting
GPS Location:	GNSS-1 (GPS + GLONASS)
Collocation Synchronization:	1PPS GPS TX/RX synchronization for collocated co-channel radios; Adjustable up/downstream bandwidth ratio
Part Number:	100-00116

1. 6 GHz operation subject to country regulations; not yet available in the U.S.

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