
IVN-8561

Specifications

2025-03-14



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IVN-8561 Specifications

Definitions

Warranted specifications describe the performance of a model under stated operating conditions and are covered by the model warranty.

Characteristics describe values that are relevant to the use of the model under stated operating conditions but are not covered by the model warranty.

- **Typical** specifications describe the performance met by a majority of models.
- **Nominal** specifications describe an attribute that is based on design, conformance testing, or supplemental testing.

Specifications are **Typical** unless otherwise noted.

Conditions

Specifications are typical at 25 °C unless otherwise noted.

Ethernet Characteristics

| Network interface | | |
|--------------------|------------|----------|
| Ports 1 & 3 | 100BASE-T1 | |
| Ports 2 & 4 | 100BASE-TX | |
| Communication rate | | 100 Mbps |

Power Requirements

| | |
|-----------------------|-------------------------------|
| Input voltage range | 5 VDC nominal; USB 3.0 Type C |
| Max power consumption | 2.8 W |

Physical Characteristics

| | |
|-------------------------|--|
| Dimensions | 143 mm × 95 mm × 38 mm (5.6 in. × 3.7 in. × 1.5 in.) |
| Weight | 391 g (13.8 oz) |
| I/O connectors | |
| Ports 1 & 3 | 2-position terminal block; Automotive Ethernet |
| Ports 2 & 4 | RJ-45; Ethernet |
| Power | USB Type C |
| Front-panel LEDs | |
| Power | Green |
| Ports 1 & 3 | Link/Activity, Green |
| Ports 2 & 4 | Link/Activity, Green |

| | |
|----------------------|------------------|
| 100 Mbps | Green |
| DIP switches | |
| Ports 1 & 3 | Master/Slave |
| Measurement Category | 1 ^[1] |



Caution Do not use the IVN-8561 for connections to signals or for measurements within Categories II, III, or IV.



Caution The protection provided by the IVN-8561 can be impaired if it is used in a manner not described in this document.



Caution Clean the hardware with a soft, nonmetallic brush. Make sure that the hardware is completely dry and free from contaminants before returning it to service.

Environmental

Operating Environment

| | |
|---------------------------|--|
| Ambient temperature range | -20 °C to 55 °C (Tested in accordance with IEC 60068-2-1 and IEC 60068-2-2.) |
| Relative humidity range | 10% to 90%, noncondensing (Tested in accordance with IEC 60068-2-56.) |
| Maximum Altitude | 2,000 m (800 mbar) |

| | |
|------------------|---|
| Pollution Degree | 2 |
|------------------|---|

Indoor use only.

Storage Environment

| | |
|---------------------------|--|
| Ambient temperature range | -20 °C to 70 °C (Tested in accordance with IEC 60068-2-1 and IEC 60068-2-2.) |
| Relative humidity range | 5% to 95%, noncondensing (Tested in accordance with IEC 60068-2-56.) |

Safety Compliance Standards

This product is designed to meet the requirements of the following electrical equipment safety standards for measurement, control, and laboratory use:

- IEC 61010-1, EN 61010-1
- UL 61010-1, CSA C22.2 No. 61010-1



Note For safety certifications, refer to the product label or the [Product Certifications and Declarations](#) section.

Electromagnetic Compatibility

CE Compliance

This product meets the essential requirements of applicable European Directives, as follows:

- 2014/35/EU; Low-Voltage Directive (safety)
- 2014/30/EU; Electromagnetic Compatibility Directive (EMC)
- 2011/65/EU; Restriction of Hazardous Substances (RoHS)

- 2014/53/EU; Radio Equipment Directive (RED)
- 2014/34/EU; Potentially Explosive Atmospheres (ATEX)

Product Certifications and Declarations


Refer to the product Declaration of Conformity (DoC) for additional regulatory compliance information. To obtain product certifications and the DoC for NI products, visit ni.com/product-certifications, search by model number, and click the appropriate link.

Environmental Management


NI is committed to designing and manufacturing products in an environmentally responsible manner. NI recognizes that eliminating certain hazardous substances from our products is beneficial to the environment and to NI customers.

For additional environmental information, refer to the ***Engineering a Healthy Planet*** web page at ni.com/environment. This page contains the environmental regulations and directives with which NI complies, as well as other environmental information not included in this document.

EU and UK Customers

-  **Waste Electrical and Electronic Equipment (WEEE)**—At the end of the product life cycle, all NI products must be disposed of according to local laws and regulations. For more information about how to recycle NI products in your region, visit ni.com/environment/weee.

电子信息产品污染控制管理办法（中国RoHS）

-  **中国RoHS**—NI符合中国电子信息产品中限制使用某些有害物质指令 (RoHS)。关于NI中国RoHS合规性信息，请登录 ni.com/environment/rohs_china。(For information about China RoHS compliance, go to ni.com/environment/rohs_china.)

NI Services

Visit ni.com/support to find support resources including documentation, downloads, and troubleshooting and application development self-help such as tutorials and examples.

Visit ni.com/services to learn about NI service offerings such as calibration options, repair, and replacement.

Visit ni.com/register to register your NI product. Product registration facilitates technical support and ensures that you receive important information updates from NI.

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