The Power Injector is a small, lightweight unit with a RJ-45 Ethernet cord input connector from the hub or the front right-hand side of the unit and a 802.3af data and power outlet connector to the AP on the front left-hand side of the unit. On the back of the unit is a 110-220VAC power input. A separate Power Injector is required for each device comprising the network.

The Symbol Power Injector supports the following Symbol device product families (all models of this class listed):

- **AP 100**
- **AP 200**
- **AP 300**
- **AP-5131**

**Power Injector Features**

- Supports standard 10/100BaseT Ethernet networks over a standard TIA/EIA-568 Category 5 (or higher) cabling.
- Meets the IEEE 802.3af standard.
- Verifies the device receiving converged power and Ethernet from the Power Injector is a product approved by Symbol (AP100, AP200, AP300, and AP-5131).
- **Caution**: Using the Power Injector with an unsupported Symbol device could render the device inoperable and void your warranty.

**Technical Specifications**

- **Input Voltage**: 90VAC to 264VAC (47-63Hz)
- **Output Voltage**: 48VDC
- **Nominal Output Voltage**: 48VDC
- **Minimum Port Output Current**: 15.4W (minimum 12.80W at the PORT)
- **Data & Power Out Connector**: RJ-45 female socket, with DC voltage on pairs 7-8 and 4-5
- **Data & Power In Connector**: RJ-45 female socket from the hub or the front right-hand side of the unit
- **Environmental Specifications**
  - Operating Temperature: 0°C to 40°C (32°F to 104°F)
  - Storage Temperature: -20°C to 70°C (-4°F to 158°F)
  - Operating Humidity: 10% to 90% Non-condensing
  - Storage Humidity: 10% to 80% Non-condensing

**Installation**

1. Connect the Power Injector to an AC outlet (110VAC to 220VAC).
2. Connect RJ-45 Ethernet cable between the network data supply fixed and the Power Injector Data In connector.
3. Connect a RJ-45 Ethernet cable between the Power Injector Data Out connector and the Symbol device receiving converged power and Ethernet.

**Caution**: Ensure AC power is supplied to the Power Injector using an AC cable with an appropriate ground connection approved for the country of operation.
Ensure the cable length from the Ethernet source (host) to the Power Injector and Symbol International Contacts

Troubleshooting

The following potential Power Injector problem scenarios should be addressed as follows:

Power Injector does not power up properly

1. Ensure the power cord plug is operational for the intended country of operation.
2. Verify the voltage at the Power Injector is between 100 and 240 VAC.
3. Remove and supply power to the Power Injector and verify the LED behavior during the powering sequence.

A Power Injector port indicator is not illuminated and the Symbol AP does not operate

1. The Power Injector did not detect the AP and thus the port is not available.
2. Ensure you are using a standard 568A/B straight-wired cable with four pairs.
3. Verify the output Ethernet cable is connected to the Power Injector’s Data In port.
4. Verify the Symbol API is connected to the Power Injector Data & Power port.
5. Reconnect the Symbol AP to a different Power Injector. If the AP receives power, there is probably a faulty port or RJ-45 connection on the Power Injector.
6. Verify there is not a short over any of the twisted pair cables or over the RJ-45 connectors.

Symbol AP receives power but no Ethernet

1. Verify the Ethernet cable is connected to an active hub or switch port on the network.
2. Verify the port indicator on the front panel is continuously illuminated.
3. Verify you are using a standard UTP/FTP Category 5 straight (non-crossover) cabling with all four pairs.
4. Ensure the Ethernet cable length is less than 100 meters from the Ethernet data to the Power Injector.
5. Reconnect the Symbol API to a different Power Injector. If the AP receives power, there is probably a faulty port or RJ-45 connection on the Power Injector.

Customer Support

Symbol Technologies provides a prompt and accurate customer support. Use the Symbol Support Center as the primary contact for any technical problem, question or issue involving Symbol products. If the Symbol Customer Support specialists cannot solve a problem, access to all technical disciplines within Symbol becomes available for further assistance and support. Symbol Customer Support representatives can be called by telephone, fax or within the time limits set forth in individual contractual agreements.

When contacting Symbol Customer Support, please provide the following information:

- Serial number of unit
- Model number or product name
- Software type and version number
- North American Contacts
  - Inside North America, contact Symbol at:
    - For sales and product information: Symbol Technologies, Inc.
      One Symbol Plaza
      Holtsville, New York 11742-1300
      Telephone: 1-631-738-6101, 1-866-SCOM-234
      Fax: 1-631-738-5990
    - For product support and service: Symbol Global Support Center
      Telephone: 1-800-813-5300, +1-631-738-6713 (Outside North America)
      Fax: 1-930-563-410

- Or see the Symbol Web for additional local contact numbers (http://www.symbol.com/services/contactsupport)

Regulatory Information

All Symbol devices are designed to comply with rules and regulations in locations they are sold and will be labeled as required. Any changes or modifications to Symbol Technologies equipment, not expressly approved by Symbol Technologies, could void the user’s authority to operate the equipment.

Local language translations are available at the following websites:

- Symbol Technologies, Inc.
  One Symbol Plaza
  Holtsville, N.Y. 11742-1300
  http://www.symbol.com

- EMI Compliance: Category 5 twisted-pair cable must be used to ensure compliance with Class B emission limits.

Radio Frequency Interference Requirements

All Symbol devices have been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio communications, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for assistance.

Radio Frequency Interference Requirements – Canada

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.