

## Imation DGSCN-100 Operational Description

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The Imation DGSCN-100 RFID reader and DGANT-100 antenna are intended to track the movement of tape cartridges in data centers and off site facilities. The reader and antenna communicate with nearby passive ISO 15693 RFID labels.

The RFID reader produces a ISO 15693 compliant 13.56 MHz amplitude modulated signal at 6 watts into 50 Ohms. The signal is connected to an antenna through a SMA connector. The reader communicates with a computer through a RS-232 connector.

The RFID antenna is tuned to a 50 Ohms impedance at a 13.56 MHz frequency. It uses a conductor that is 370 mm x 500 mm center to center. The conductor is connected to a tuning board. The tuning board has resistors, capacitors, and a transformer. The tuning board is connected to an RG-58 cable with an SMA connector.