

EXHIBIT I

Operational Description

Product Description

This device is a transceiver. It receives signals from existing ITI transmitters or other super board transceivers. It transmits signals to other compatible ITI receivers. Both the receiver and the transmitter operate 319.5 MHz.

A hardwire bus provides a data link to an external board or security panel. There are three possible configurations for the hardwire bus:

- A Concord security system may be connected to the 4 position terminal block. In this case, 12VDC power is supplied by the Concord security system.
- A Networx security system may be connected to the 3 position terminal block. In this case, 12VDC power is supplied by the Networx security system.
- A daughter board may be connected to the 8 position header. In this case, 12VDC power is supplied by a Class 2 transformer.

The transmitter circuit consists of a 319.5 MHz oscillator followed by an amplifier. The transmitter amplifier is connected to a RF switch which selects either the right or left antenna to be transmitted from.

The receiver is of the superheterodyne type. It uses a Maxim MAX7033 chip running on a 4.825 MHz crystal. The receiver input is connected to a RF switch, which selects either the right or left antenna.

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