

Theory of Operations

Vivotech RFID/NFC Reader

The reader device is a near field communication reader. Under command from a connected Electronic Cash Register (ECR) It emits a 13.56MHz magnetic field that energizes a nearby un-powered RFID enabled tag (contactless credit card or fob) or powered NFC enabled telephone device. The maximum distance for reading is less than 4cm. When the VP8100 detects an RFID tag in the field, it establishes an encrypted data link with the remote device. The encrypted information from the remote device is then forwarded to the ECR to complete a transaction such as a purchase or payment authorization. The Vivotech device conforms to the communication standard ISO/IEC 14443.