



DESCRIPTION OF PRODUCT

The minimum configuration for an **Elite 770 Short Range RF** system consists of one base (**Elite 770 Intelligent Base**) and one terminal (**Elite 770 Hand Held**). The system can be expanded to multiple bases with one or more terminals per base. The terminal can also be placed on a charger that also acts as a cradle. The Elite 770 is a Point-of-Sale Electronic Funds Transfer credit and debit system targeted for hospitality merchants. These merchants require portability for credit and wireless PIN entry for on-line debit transactions.

The Elite 770 operates as a Stand-alone dial up system; a semi-integrated system with multiple bases wired to a master controller or as a fully integrated system with each base connected to a PC.

Type: License exempt approval

Band: 902-928Mhz

Channels: 15 channels from 911.4 to 914.2Mhz (spaced 200khz), and 15 channels from 915.8 to 918.6Mhz (spaced 200khz)

Modulation: frequency modulation

Oscillator Frequency for transmitting and receiving: 10.7 MHz

Emitting power: less than 50mV/m at 3m

Duty-cycle transmission = 30% (70% reception, 30% emission)

Maximum time of emitting = 300ms (the longest frame).

ELITE 770 SYSTEM FEATURES:

- RS232 port in base
- Dial modem in base
- Keypad: 18 key backlit
- Smart Card reader ISO 7816
- Memory: 1 Meg (optional 2 Meg)
- UNICAPT™ software architecture
- Rechargeable batteries in terminal
- Printer: Thermal 4 lines per second
- No SIMs (optional 4)
- MSR Card Reader: Track 1/2 bi-directional
- An optional charger and cradle for the terminal
- Display: Backlit LCD graphics
- Security: Interac, ANSI standards X3.92, X9.8, X9.19, X9.24
- Support direct modulation radio sets as per RCC 210 (Canada) or FCC XXXX (U.S.)

RF modem (Hand Held and Base):

- To operate in Canada the radio modem must conform to the Industry Canada Radio Standards Specifications RSS210 for Low Power License – Exempt Radio Communications Devices, Issue 2, Rev 1 dated February 14 1998. Certification by Industry Canada is required prior to product release to allow license - exempt operation.
- To operate in the U.S. the radio modem must conform to the FCC requirements for use in the license – exempt band. IVI Checkmate will obtain the required specification.
- Capable of communication with the terminal on any of the 15 channels available

- Successfully communicate, in free space, with a terminal up to 100 meters away.
- Communicates with the terminal at 19,200 baud (real data rate is about 6000bps due to the protocol overlay).

Dial Modem (Base):

- Serial communications
- Supports Bell 212A protocol (1200 baud)
- The base will have to connect to Hypercom NAK devices in the USA. The modem needs to support synchronous communications and fast connect. This will not be in the first release.

Ports (Base)

RS232

- Serial communications port used for application download, key injection and serial communications.
- Supports Bell 212A protocol (1200 baud)
- Connector type – RJ12 modular jack (6 position x 6 contacts connector)

Power Adapter (Base):

- CSA/UL certified
- 120 Vac/60 Hz Class II Type, Wall Mount.

Plugs into the base.

Keypad (Hand Held):

18 keys, with backlighting

Provide dimple on the “5” key

Text and colours as per Appendix A.

Printer (Hand Held):

Technology - Thermal with graphics capability

Print field width - 24 column

Print speed – 4 lines per second (with normal battery charge)

Font - North American ASCII character set, print normal, double wide.

Buttons - Paper feed on keypad of each terminal

Smart Card Reader (Hand Held):

Complies with ISO 7816 1/2/3, Sync & Async T=1 & T=0 and is EMV and IMV compliant. The Elite 770 hardware supports 3 and 5-volt cards and clock frequencies of 3.579 or 7.159 MHz. The software support for 3 volt cards will be in a future version. The Ingenico Operating System will provide the universal translator allowing drivers to be built for the following chips: T2G (also known as GPM271 or FE291), GPM103, SLE4406, SLE4406E, SLE4418, SLE4428, SLE4436, SLE4442, SLE44C80S, GPM416, GPM898 and SLE44C42S.

Magnetic Stripe Reader (Hand Held):

ISO 1 and ISO 2 tracks decoding

Single swipe (simultaneous) Tracks 1 and 2 read

Bi-directional read.

There are no known standardized tests for evaluating the quality of the magnetic stripe reader and associated software. In lieu of standardized tests, Ingenico will do tests using two different testers with ten used North American cards.