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# Lip

LIPMAN ELECTRONIC ENGINEERING LTD

## Wireless POS/EDC Terminal

# NURIT 2090



## Description

Aimed at the portable/mobile temporary location retail market, the NURIT 2090 maintains the Lipman tradition of outstanding engineering expertise in state-of-the-art wireless technologies. No trade-offs have been made in reliability and ease-of-use, so you, the retailer, are the winner! In addition, the terminal's integrated design permits the incorporation of the widest range of innovative features packed into one compact unit. The large, high-contrast LCD display and menu driven software, together with four "soft" keys and four programmable function keys, allow the user to easily and quickly access all of the terminal's powerful features. The fast and extremely quiet built-in thermal printer plus optional PIN pad and smart card reader combination, make this POS terminal the most exciting and practical wireless countertop electronic transaction platform available on the retail market today.

If your business conducts "sales on the go", the NURIT 2090 is the perfect low-cost solution for maximum communications flexibility and efficiency.

## Features

- Low cost, all-in-one wireless POS terminal/printer solution
- Optional built-in PIN pad, smart card reader and SAM module
- Occupies minimal counter or wall space
- Average tel-line transaction response time - 8 seconds
- Analog & digital wireless networks including Mobitex, CDPD and Motorola DataTac cellular, plus standard tel-lines (3 to 5 seconds per transaction for all except cellular)
- Integrated fast and quiet 12 line-per-second thermal printer that generates high quality receipts
- Easily replaceable paper roll
- Automatic "drop-in" paper feed function
- Highly visible back-lit LCD display
- User-friendly keypad and operational menu system
- All versions consist of dual-track, dual-way card readers, 2400 bps modem, 1 MB Flash and 256KB of RAM
- Multi-host capability including AMEX PIP
- Handles multiple EDC transaction types: credit, debit, electronic benefits transfer (EBT), check guarantee and truncation, phone cards and more
- Current and history batch reports available
- New download initialization function with menu (in addition to the NURIT Operating System [NOS])



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# NURIT<sup>2090</sup>

## Specifications

### Human Interface

- 32-character back-lit LCD display
- Highly reliable 32-key ergonomically designed keypad
- Full alphanumeric entry capability
- Dual track 1 and 2 card reader (tracks 2 and 3 optional)
- User-friendly menu-driven system
- Easily accessible rear peripheral ports

### Processing

- Powerful 32-bit Motorola EC68000 microprocessor

### Memory

- 1 MB flash memory for loader, operating system, application, protocol and parameters
- 256 KB rechargeable battery backed-up RAM for user data (including RAM disk)
- Optional 512 or 1024 KB battery backed-up RAM
- Six month minimum data retention

### Programming

- Easy-to-use API, minimizing application size and programming efforts
- Same application runs on all Lipman terminals
- Application downloading via phone line or RS-232 connection
- Easy-to-use debugging tools
- Complete and detailed hardware/software built-in tests
- Add-on application libraries for major third-party credit, debit, check and verification and truncation programs, EBT, phone cards, pre-paid, added value and private label cards

### Security

- User key function security by password/magnetic card
- Operator, manager & programming password protection
- Loading center ID issued to terminal prevents easy reprogramming by third parties
- Clearly distinguishable merchant & consumer receipts

### Communication

- Dial-up modem @ 1200/2400bps for telephone communication (CCITT V.22bis and Bell 212A). Asynchronous and synchronous protocols supported by operating system. Higher bit rates in future models
- HDLC protocol supported by operating system.

### Radio Communication

- Built-in radio modem
- Built-in radio power supply battery pack and charger

- Hardware/software solutions for the following networks:
  - Mobitex (MASC & MPAK protocols)
  - CDPD
  - Motorola DataTac

### Interfacing

- Two RJ-11 2/6 connectors for tel-line and telephone.
- One RJ-11 4/4 connector for external PIN pad interface (RS-232 port)
- One RJ-45 connector for RS-232 communication
- One RJ-45 connector for extra RS-232 communication or two RJ-11 type 4/4 connectors for RS-485 communication

### Built-In PIN Pad (Optional)

- Eliminates the need for external device
- Meets standards: ANSI X3.92, ANSI X9.24, ANSI X9.8

### Built-In Smart Card Interface (Optional)

- One smart card interface (supports ISO-7816)
- Eliminates the need for high-cost external devices

### SAM Security Module (Optional - Up to Four)

- Two accessible SAMs
- Two internal SAMs

### Printer

- Fast, highly-reliable thermal printing mechanism
- Simple-to-use automatic "drop-in" paper feeder
- Standard 2.24 inch/(57mm) wide paper
- Printing speed: 12 lines-per-second

### Power

- Supplied Underwriter Labs (UL) approved AC/DC adapter 15Vdc/2.5A
- Built-in Ni-MH battery pack (9 hours or 150 transactions)

### Mechanical

- Dimensions: 101 mm/3.97 in. (H) x 150 mm/5.91 in. (W) x 260 mm/10.24 in. (D)
- Weight (with antenna/without paper): 2450g/5.4 lb. [approx.]

### Approvals

- Complies and registered with FCC parts 15 and 68
- Power supply adapter recognized by Underwriter Labs (UL)



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