



LIPMAN ELECTRONIC ENGINEERING LTD

POS/EDC TERMINAL

# NURIT 2085



## Description

The NURIT 2085 is a proud addition to Lipman Engineering's list of high-performance, electronic point-of-sale (POS) equipment. The NURIT 2085 is a very reliable and compact integrated electronic transaction terminal housing a fast and extremely quiet built-in thermal printer. The terminal is designed for multi-application point-of-sale (POS) purposes using credit, debit, smart chip cards, electronic benefits transfer (EBT) phone cards and other electronically submitted transaction methods. In addition, as in all of the NURIT series of terminals, check verification processing is handled easily and quickly. The NURIT's large, high-contrast alphanumeric LCD display and menu driven software, in addition to its four "soft" keys and four programmable function keys, allow the user to easily and quickly access all of the terminal's powerful features. Advanced communications techniques and mature software, combine to make this terminal fast, while exhibiting a very low error rate. Besides smart card applications, the NURIT 2085 supports both synchronous and asynchronous communication networks, thus allowing for multiple card use, but uses minimal transaction routing links for flexible and cost efficient processing.

## Features

- Low-cost, all-in-one POS terminal/printer solution
- Optional built-in PIN Pad, smart card reader and SAM modules
- Occupies minimal counter or wall space
- Average transaction response time - 8 seconds
- Integrated fast and quiet 12 lines-per-second thermal printer that generates high quality receipts
- Easily replaceable paper roll
- Automatic paper feed function
- Highly visible graphical back-lit LCD display
- User-friendly keyboard and operational menu system
- All versions consist of dual-track, dual-way card readers, 2400 bps modem, 1MB (min.) Flash and 256K (min.) 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])

# NURIT<sup>2085</sup>

## Specifications

### Human Interface

- Back-lit 32-character LCD display (graphical 192 x 48 pixel display optional)
- Highly reliable 32-key ergonomically designed keypad (13 soft, 4 function and 4 "hot" keys)
- 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 microprocessor, type EC68000

### Memory

- Total of memory capacity of 3 MB
- 1024 KB flash memory for loader, operating system, application, protocol and parameters (2048 KB optional)
- 256 KB rechargeable battery backed-up RAM for user data (including RAM disk)
- Six months minimum data retention
- Optional 128, 512 & 1024 KB battery backed-up RAM

### 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 verification and truncation programs, EBT, phone cards, pre-paid, added value and private label cards

### Communication

- Dial-up modem @ 300, 1200 and 2400 bps 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.

### 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 local area network (LAN)

### 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 graphic thermal printing mechanism
- Simple-to-use "drop-in" automatic paper feeder
- Standard 2.75 inch diameter (69.85 mm)/2.24 inch, (57mm) wide paper [384 pixels per row]
- Printing speed: 12 lines-per-second

### Power

- Supplied Underwriter Labs approved AC/DC adapter 14.5Vdc/1.5A
- UPS Ni-MH battery pack for the NURIT 2085U version enabling 9 hours or 150 transactions of stand-alone operation (optional)

### Mechanical

- Dimensions - 92 mm (H) x 150 mm (W) x 260 mm (D)
- Weight (without paper roll) - NURIT 2085: 2050g and NURIT 2085U: 2200g [approx.]

### Approvals

- Complies and registered with FCC parts 15 and 68
- Complies with TBR21
- Power supply adapter recognized by Underwriter Labs (UL)



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