

# Lip

LIPMAN ELECTRONIC ENGINEERING LTD

## POS/EDC TERMINAL

# NURIT 3000



## Description

The NURIT 3000 is another proud addition to the Lipman family of advanced point-of-sale (POS) terminals, and is designed to be an ideal, low-cost and powerful system packed into one small footprint. No wasted counterspace when using this terminal! A fast and quiet built-in thermal printer, provides an economical, all-in-one solution to your electronic transaction needs. The NURIT's user-friendly keyboard, large graphical display and menu-driven software makes operation fast and easy. This terminal can easily be enhanced by adding an optional built-in PIN Pad or smart card reader with SAM security modules.

The NURIT 3000 is designed for multi-application 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. Advanced communications techniques and mature software, combine to make this terminal fast, while exhibiting a very low error rate. In addition to smart card applications, the NURIT 3000 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.

Whatever your electronic processing needs, the NURIT 3000 is clearly a winner!

## Features

- Low-cost, all-in-one POS terminal/printer solution
- Optional built-in PIN pad, smart card reader and SAM modules
- Small footprint. Occupies minimal counterspace
- Average transaction response time - 7 to 10 seconds
- Integrated fast and quiet 12 line-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
- Houses dual-track, dual-way card readers, 2400 bps modem, standard 1 MB (min.) Flash memory and 256 KB (min.) of RAM
- Multi-host capability including AMEX PIP
- Handles multiple EDC transaction types: credit, debit, smart, 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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## Specifications

### Human Interface

- Graphical back-lit 20-character LCD display (128x64 pixels)
- Highly reliable 20-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 microprocessor, type EC68000

### Memory

- Total memory capacity of 2 MB
- 1 MB flash memory for loader for operating system, application, protocol and parameters
- 256 KB (min.) rechargeable battery backed-up RAM for user data (including RAM disk)
- 512 or 1024 KB battery backed-up RAM (optional)
- 6 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

### Communication

- Dial-up modem @ 1200/2400bps for telephone communication (CCITT V.22bis and Bell 212A). Asynchronous and synchronous protocols supported by operating system (OS). 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

### 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
- Certified by Visa and MasterCard

### Up to two ISO 7816 SAM Security Modules (Optional)

- Two internal (non-accessible) at board level

### Printer

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

### Power

- Supplied Underwriter Labs approved 14.5Vdc/1.5A AC/DC adapter

### Mechanical

- Dimensions: 82 mm/3.23 in (H) x 108 mm/4.25 in (W) x 230 mm/9.06 in (D)
- Weight: 730g/1.6 lb

### 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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