Lip

LIPMAN ELECTRONIC ENGINEERING LTD

POS/EDC TERMINAL

NURIT 3020

Description

The NURIT 3020 is an innovative and flexible state-of-the-art payment terminal offered to the retail merchant community. Among some of the outstanding components integrated into the NURIT 3020, you'll find a powerful built-in rechargeable battery pack (UPS) with 1-hour fast charger for easy portability, and a 14400 bps modem supporting up to six times more data volume than traditional 2400 bps modems. This particular modem facilitates extremely fast and secure downloading of software, parameters, black list etc..., significantly lowering cost of ownership and enhancing ease-of-use. The terminal supports the TCP/IP protocol enabling direct interconnection with the Worldwide Web for data and electronic commerce. Superior transaction speed and functionality can also be accredited to the unit's powerful 32-bit microprocessor and fast, highly reliable, thermal printer!

The NURIT's basic platform supports all traditional mag-stripe means of payment, and may be easily upgraded to use an optional smart card acceptor and PIN pad to securely process other diverse methods of payment popular today, or planned for tomorrow. As in all of Lipman's products, much effort has been invested to foresee the rapidly changing marketplace, so as to leave in the hands of each customer the most technologically advanced and cost-effective solution to their individual business needs.

Features

- Light weight; small footprint
- Highly reliable 20-button ergonomically designed keypad
- Large back-lit graphical display (128x64 pixels) enhancing the graphical user interface and menu-driven applications
- Battery backed-up 256 KB RAM (512, 1024 or 2048 KB optional)
- 4 MB (maximum) flash memory for loader, operating system, application, protocols and parameters
- Fast and quiet 12 lines-per-second thermal printer graphical 2 1/4 inch (57 mm) wide paper, 24 or 40 columns in text mode)
- Multi-language character/font support
- Rear-accessible peripheral ports:
  - Two RJ-11 connectors (2/6) for tel-line and telephone
  - One RJ-11 connector (4/4) for external PIN pad interface (RS-232 port)
  - One RJ-45 connector for RS-232 communication
- Dual-track 1 & 2 magnetic reader (track 2 & 3 optional)
- Application protocol and parameter downloading via tel-line or RS-232 connection
- Internal battery pack (with built-in 1-hour fast charger) for 5 hours of operating time or 70 transactions (optional)
- On-screen battery status monitor
- Built-in 14400 bps modem (NURIT 3020 supports all traditional communication rates)
- Smart card acceptor (optional)
- Fast 32-bit processor
- 4 SAM modules (2 accessible)
- Protected RAM disk for data files

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Specifications

Human Interface
- Graphical back-lit LCD display (128 x 64 pixels); contrast adjustment via keypad
- 20-button ergonomically-designed keypad
- Full alphanumeric entry capability
- Dual track bi-directional 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 supported by a specially designed ASIC

Memory
- Total memory capacity up to 6 MB
- Up to 4 MB of flash memory for loader, operating system, applications, executable plug-ins, protocol plug-ins and parameters
- 256 KB battery backed-up RAM for user data (including RAM disk); 512, 1024 and 2048 KB battery backed-up RAM optional
- Six-month minimum data retention
- Write-protected RAM using special hardware mechanism to protect RAM disk content

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 at 300, 1200, 2400 up to 14400 bps for telephone communication (CCITT V.22bis and V.32bis and fast connect supported). Asynchronous and synchronous protocols supported by operating system
- HDLC protocol supported by operating system
- TCP/IP protocol supported by operating system (optional)

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 (supports full handshaking 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 EMV Compatible Smart Card Interface (Optional)
- One smart card interface (supports ISO-7816 contact smart cards, synchronous and asynchronous; T=0, T=1). Protocol layers up to "transport" layer supported by OS.
- Eliminates the need for high-cost external devices

Up to four ISO 7816 SAM Security Modules (Optional)
- Two accessible
- Two internal (non-accessible) at board level

Printer
- Fast 12 lines-per-second, graphical thermal printing mechanism
- Simple-to-use automatic paper feeder
- Standard 2 1/4 inch (57mm) wide paper (384 pixels per row)
- Multi-language character/font support
- 8 dots-per-mm printing resolution

Power
- Supplied UL approved AC/DC adapter: 14.5Vdc/1.5A
- Internal built-in battery pack (UPS) allowing for 5 hours of general operation or 70 transactions (optional)
- Built-in 1-hour fast charger (optional)

Mechanical
- Dimensions: 82 mm/3.23 in (H) x 108 mm/4.26 in (W) x 230 mm/9.06 in (D)
- Weight: 780g/1.72 lb

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

ISO 9002 SI

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