

Products: POS Terminals & Check Readers

NURIT 720

Description

Features

Specifications

POS Terminals & Check Readers

NURIT 720

NURIT 710

NURIT 700

Description

The **NURIT 720** is an integrated **electronic wireless point-of-sale (POS) payment terminal and automatic check reader** designed to support a complete range of retail payment transactions including magnetic debit, credit smart chip cards, checks, private label and more. As in all **NURIT 700** series equipment, much effort has been invested in the design and engineering of the **NURIT 720** for the operational ease and benefit of both retailer and customer.




The **NURIT 720** is the culmination of many years experience in both wireless processing technology and standard tel-line POS terminal manufacturing. This unit incorporates a radio modem (OEM internal data modem or PCMCIA slot for external plug-in unit), line modem, internal fast printer, internal PIN pad (optional), Smart Card Reader (optional), four SAM modules and a rechargeable battery pack with fast charger.

The integrated check reader in the **NURIT 720** model, **automatically** and **accurately** reads personal or commercial checks. Internal paper sensors detect the presence of a check and subsequently activate a motorized "pull-in" transport mechanism. Magnetic data is automatically transferred to the unit's POS terminal where it is processed as an electronic transaction.

Features

- Low-cost, tel-line or wireless, *all-in-one* terminal solution
- Highly reliable 20-button ergonomically designed keypad
- Small footprint
- 1MB flash; extendable to 2 MB
- 256 KB battery backed-up RAM (512, 1024 or 2048 KB optional)
- Fast 32-bit processor

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- Fast 12 line/sec thermal printer (graphical, 2 1/4 inch/57 mm wide paper)
 - Easily replaceable paper roll with automatic paper feed mechanism
 - Accessible peripheral ports
 - Large back-lit graphical display (128 x 64 pixels) enhancing the *graphical* user interface and menu-driven applications
 - OS and dual-track 1 & 2 magnetic reader (track 2 & 3 optional)
 - Application downloading via tel-line or RS-232 connection
 - Built-in UPS battery pack with built-in fast charger
 - Battery status monitor
 - Built-in radio modem for Cellular Data Network - GSM, CDPD, MOBITEK and DATATAC
 - Internal OEM Data Modem/PCMCIA Slot for external plug-in unit
 - Built-in Smart Card Interface (optional)
 - Up to four SAM modules, two accessible and two internal at board level
 - Accepts personal and commercial checks
 - Very high check reader MICR pass read rate
 - Motorized automatic check transport
 - Check reader audio alarm and LED power and read status

Specifications

POS TERMINAL COMPONENT

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 1 and 2 card reader
- User-friendly menu-driven system
- Easily accessible rear peripheral ports

Optional:

- Dual track 2 and 3 card reader

Processing

- Powerful 32-bit Motorola microprocessor, type EC68000 supported by a specially designed ASIC

Wireless Capabilities

- Built-in radio modem
- Local RF network

- Hardware/software solutions for GSM, CDPD, Mobitex and DataTac cellular networks

Optional:

- PCMCIA slot for external plug-in radio module (optional)

Memory

- Total memory capacity of 4 MB
- 1 MB flash memory for loader, operating system, applications, executable plug-ins, protocol plug-ins and parameters (extendable to 2 MB)
- 256 KB battery backed-up RAM
- Six month minimum data retention
- Write-protected RAM using special hardware mechanism to protect RAM disk content

Optional:

- 512, 1024 or 2048 KB battery backed-up RAM

Programming

- Easy-to-use API, minimizing application size and programming efforts
- 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 @ 1200/2400 bps for telephone communication (CCITT V.22bis, Bell 212A). Asynchronous and synchronous protocols supported by operating system.
- 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

Optional:

- External card interface: PCMCIA types 1,2 and 3 used for wireless modem and memory expansion

Printer

- Fast, graphic thermal printing mechanism
- Simple-to-use automatic paper feed mechanism
- Standard 2 1/4 inch/57mm wide paper (384 pixels per row)
- Printing speed: 12 lines-per-second

Power:

- Supplied **UL** approved 14.5 Vdc/1.5A AC/DC adapter
- Built-in battery pack (UPS) allowing for 10 hours of operation or 150 transactions
- Built-in 2-hour fast charger

Mechanical:

Dimensions: 10.5 mm/4.1 in. [17 mm/6.69 in. with antenna extended] (H) x 22 mm/8.66 in. (W) x 27 mm/10.62 in. (D)

Weight: 3.97 kg [8.75 lb.]

Optional:

Built-In PIN Pad

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

Built-In Smart Card Interface

- 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

- Two accessible
- Two internal at board level

CHECK READER COMPONENT

MICR Reading Performance (nominal)

- 99.5% first pass read rate
- 99.9% second pass rate

MICR Character Set Recognition

- E13-B and CMC-7

Check Handling and Transport

- Motorized automatic paper transport

Sensors

- Top of form and paper edge/alignment sensor

Check Media Read

- Personal and commercial checks

MICR Fields Read

- All specified character positions on a personal check can be read, including the Transmit, On-Us, Auxiliary On-Us, and Amount fields.

Approvals

- Complies and registered with FCC parts 15 and 68
- Complies with TBR21
- Power supply AC/DC adapter recognized by Underwriter Laboratories (UL)

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Products: POS Terminals & Check Readers

NURIT 710

Description

Features

Specifications

POS Terminals & Check Readers

NURIT 720

NURIT 710

NURIT 700

Description

The **NURIT 710 integrated electronic portable point-of-sale (POS) payment terminal and automatic check reader** have been designed to support a complete range of retail payment transactions including magnetic debit, credit smart chip cards, checks, private label and more. Much effort has been invested in the design and engineering of all **NURIT 710** model for the operational ease and benefit of both retailer and customer.




The **NURIT 710** is designed with an **on-board rechargeable UPS battery pack** and operates from a standard telephone line, but eliminates the need for an external power source.

The integrated check reader in the **NURIT 710** model, **automatically and accurately** reads personal or commercial checks. Internal paper sensors detect the presence of a check and subsequently activate a motorized "pull-in" transport mechanism. Magnetic data is automatically transferred to the unit's POS terminal where it is processed as an electronic transaction.

Features

- Low-cost, tel-line, *all-in-one* terminal solution
- Highly reliable 20-button ergonomically designed keypad
- Small footprint
- Up to 4MB flash
- 256 KB battery backed-up RAM (512, 1024 or 2048 KB optional)
- Fast 32-bit processor
- Fast 12 line-per-second thermal printer (graphical, 2 1/4 inch/57 mm wide paper)

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- Easily replaceable paper roll with automatic paper feed mechanism
 - Accessible peripheral ports
 - Large back-lit graphical display (128 x 64 pixels) enhancing the graphical user interface and menu-driven applications
 - OS and dual-track 1 & 2 magnetic reader (track 2 & 3 optional)
 - Application downloading via tel-line or RS-232 connection
 - Built-in UPS battery pack with built-in fast charger
 - Battery status monitor
 - Built-in Smart Card Interface (optional)
 - Up to four SAM modules, two accessible and two internal at board level
 - Accepts personal and commercial checks
 - Very high check reader MICR pass read rate
 - Motorized automatic check transport
 - Check reader audio alarm and LED power and read status

Specifications

POS TERMINAL COMPONENT

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 1 and 2 card reader
- User-friendly menu-driven system
- Easily accessible rear peripheral ports

Optional:

- Dual track 2 and 3 card reader

Processing

- Powerful 32-bit Motorola microprocessor, type EC68000 supported by a specially designed ASIC

Memory

- Total memory capacity of 6 MB
- 1 MB flash memory for loader, operating system, applications, executable plug-ins, protocol plug-ins and parameters (extendable to 4 MB)
- 256 KB battery backed-up RAM
- Six month minimum data retention

- Write-protected RAM using special hardware mechanism to protect RAM disk content

Optional:

- 512, 1024 or 2048 KB battery backed-up RAM

Programming

- Easy-to-use API, minimizing application size and programming efforts
- 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, 2400 and up to 14000 bps for telephone communication (CCITT V.22bis and V.32bis). Asynchronous and synchronous protocols supported by operating system.
- HDLC protocol supported by operating system.

Optional:

- TCP/IP 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

Optional:

- External card interface: PCMCIA types 1,2 and 3 used for wireless modem and memory expansion

Printer

- Fast, graphic thermal printing mechanism
- Simple-to-use automatic paper feed mechanism
- Standard 2 1/4 inch/57mm wide paper (384 pixels per row)

- Printing speed: 12 lines-per-second

Power:

- Supplied UL approved 14.5 Vdc/1.5A AC/DC adapter
- Built-in battery pack (UPS) allowing for 10 hours of operation or 150 transactions
- Built-in 2-hour fast charger

Mechanical:

Dimensions: 10.5 mm/4.1 in. (H) x 22 mm/8.66 in. (W) x 27 mm/10.62 in. (D)

Weight: 3.97 kg [8.75 lb.]

Optional:

Built-In PIN Pad

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

Built-In Smart Card Interface

- 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

- Two accessible
- Two internal at board level

CHECK READER COMPONENT

MICR Reading Performance (nominal)

- 99.5% first pass read rate
- 99.9% second pass rate

MICR Character Set Recognition

- E13-B and CMC-7

Check Handling and Transport

- Motorized automatic paper transport

Sensors

- Top of form and paper edge/alignment sensor

Check Media Read

- Personal and commercial checks

MICR Fields Read

- All specified character positions on a personal check can be read, including the Transmit, On-Us, Auxiliary On-Us, and Amount fields.

Approvals

- Complies and registered with FCC parts 15 and 68
- Complies with TBR21
- Power supply AC/DC adapter recognized by Underwriter Laboratories (UL)

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NURIT 700

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NURIT 720

NURIT 710

NURIT 700

Description

The **NURIT 700** is an integrated electronic **point-of-sale (POS) payment terminal and automatic check reader** designed to support a complete range of retail payment transactions including magnetic debit, credit smart chip cards, checks, private label and more. Much effort has been invested in the design and engineering of all **NURIT 700** model for the operational ease and benefit of both retailer and customer.




The **NURIT 700** is the **standard model** requiring a telephone line and AC power source for normal operation.

The integrated check reader in this unit **automatically** and **accurately** reads personal or commercial checks. Internal paper sensors detect the presence of a check and subsequently activate a motorized "pull-in" transport mechanism. Magnetic data is automatically transferred to the unit's POS terminal where it is processed as an electronic transaction.

Features

- Low-cost, tel-line, *all-in-one* terminal solution
- Highly reliable 20-button ergonomically designed keypad
- Small footprint
- 1MB flash
- 256 KB battery backed-up RAM (512 or 1024 KB optional)
- Fast 32-bit processor
- Fast 12 line-per-second thermal printer (graphical, 2 1/4 inch/57 mm wide paper)
- Easily replaceable paper roll with automatic paper feed mechanism
- Accessible peripheral ports

- 
- Large back-lit graphical display (128 x 64 pixels) enhancing the graphical user interface and menu-driven applications
 - OS and dual-track 1 & 2 magnetic reader (track 2 & 3 optional)
 - Application downloading via tel-line or RS-232 connection
 - Built-in Smart Card Interface (optional)
 - Up to two internal SAM modules
 - Accepts personal and commercial checks
 - Very high check reader MICR pass read rate
 - Motorized automatic check transport
 - Check reader audio alarm and LED power and read status

Specifications

POS TERMINAL COMPONENT

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 1 and 2 card reader
- User-friendly menu-driven system
- Easily accessible rear peripheral ports

Optional:

- Dual track 2 and 3 card reader

Processing

- Powerful 32-bit Motorola microprocessor, type EC68000 supported by a specially designed ASIC

Memory

- Total memory capacity of 2 MB
- 1 MB flash memory for loader, operating system, applications, executable plug-ins, protocol plug-ins and parameters
- 256 KB rechargeable battery backed-up RAM for user data (including RAM disk)
- Six month minimum data retention
- Write-protected RAM using special hardware mechanism to protect RAM disk content

Optional:

- 512 or 1024 KB battery backed-up RAM

Programming

- Easy-to-use API, minimizing application size and programming efforts
- 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 @ 1200/2400 bps for telephone communication (CCITT V.22bis, Bell 212A.) Asynchronous and synchronous protocols supported by operating system.
- 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

Printer

- Fast, graphic thermal printing mechanism
- Simple-to-use automatic paper feed mechanism
- Standard 2½ inch/57mm wide paper (384 pixels per row)
- Printing speed: 12 lines-per-second

Power:

- Supplied UL approved AC/DC adapter: 14.5Vdc/1.5A

Mechanical:

Dimensions: 10.5 mm/4.1 in. H x 22 mm/8.66 in.
(W) x 27 mm/10.62 in. (D)

Weight: 3.97 kg [8.75 lb.]

Optional:

Built-In PIN Pad

- Eliminates the need for external device

- Meets standards: ANSI X3.92, ANSI X9.24, ANSI X9.8

Built-In Smart Card Interface

- 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.
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Up to four ISO 7816 SAM Security Modules

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