**ITX 2/3000 Series**

**Thermal Ticket Printer**

Optimum Printing Solutions for Ticketing Systems

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The ITX Series is Practical Automation’s innovative new series of direct thermal ticket printers. Incorporating a 32 Bit controller platform, a choice of print heads, and a heavy-duty stepper driven cutter, these new printers are designed for use where high quality, fast printing, and long life is required.

Optimized to work from character based operating systems (DOS, Unix, Linux, etc.) or from Windows® using a supplied WYSIWYG driver.

The easy-to-use command language facilitates printing of several resident fonts and bar codes in several sizes anywhere on the ticket. Also the command language is compatible with application software written for popular industry standards including Practical Automation’s own ETX and LTX Series printers. The ITX Series delivers extensive status information over the interface. This status provides the host system with information such as low paper, out of paper, ticket count, confirm ticket printed, error condition, etc.

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Model µITX 3002/3 Table Top Ticket Printer

Model µITX 3002/3 Countertop Ticket Printer (Vertical Mount)

Model PS60-14 Power Supply

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Applications Include:

- Movie theater admissions
- Leisure/Event entertainment
- Transportation ticketing
- Museums/performing arts centers
- Private & municipal stadiums
- Recreational facilities

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PRACTICAL AUTOMATION, INC.
The Alinabal Group of Companies
Choose a printer to match your needs.

The ITX Series printers are offered in a desktop and countertop (vertical mount) versions with either 203 dpi or 300 dpi resolution. Additionally the printers can be configured to use 2.00 inch or 3.25 inch wide tickets. Ticket stock is self-loading.

The standard printer contains firmware that emulates the most commonly used ticket programming language. Optional Windows® compatible firmware that emulates WYSIWYG function is also available.

Choices for ticket separation include manual tear, auto cutters with ticket retainers, and auto cutters with ticket ejectors. The data interface can be IEEE1284 parallel or RS 232 serial. Standard off the shelf data cables can be used for these interfaces. For USB interface a USB to parallel “smart” adapter cable is available (WIN 2K only)

A Practical Ticket Storage Solution

The Models GTX-THLP-2 and -4 ticket Storage Assemblies are designed to conveniently hold up to 2.5 and 4.5 inch wide fanfold tickets, respectively. Tickets are neatly stored in a stack and prevented from spilling over. A “low” ticket sensor is used to provide an indication when stored tickets are running low. Users can now anticipate a ticket outage before it actually happens.
**ITX 2/3000 Series**

**Specifications**

**Printing Method:** Direct thermal

**Printhead:**
- **Dot Density**
  - ITX 2000: 203 DPI (8 dots/mm)
  - ITX 2000: 300 DPI (11.8 dots/mm)
  - ITX 3000: 50 x 10^6 Dot Cycles (typical)
- **Abrasive Life:** 164 K ft (50 Km) typical
- **Temperature:** Thermostat controlled

**Print Speed:**
- ITX 2000: 10.0 in/sec Max. (254 mm/sec)
- ITX 2000: 8.0 in/sec Max. (203 mm/sec)

**Resident Fonts:**
- 5x7, 5x9 (OCR), 8x16
- 13x20 (OCR), 17x31 (OCR), 18x30 (Courier)
- 20x40 (Courier), 25x41 (Bold Prestige), 25x49 (Script)
- 30x52 (OCR), 46x91 (Orator)

**Resident Bar Codes:**
- Code 39, Interleaved 2 of 5, EAN 13, EAN 8, UPC, USS-CODABAR, Code 328 B and C with optional human readable interpretation line

**Graphics:**
- Dot addressable graphics;
- box and line drawing commands;
- downloadable fonts and logos;
- PCX file support; PCX image rotation (0, 90, 180, 270 degrees) and multiplication

**Print Firmware Options:**
- The characteristics noted on this data sheet refer to the standard firmware version. This firmware "emulates" the most commonly used Ticket Programming Language.

**Environment:**
- **Temperature:** Operating: +5 to 40°C
- Storage: -5 to 65°C
- **Humidity:** 20-85% relative, non-condensing

**User Switches:**
- Power On/Off
- Select (F0)
- Test (F1)
- Line Feed (F2)
- Form Feed (F3)

**Indicators:**
- Power/Paper (green LED)
- Ready (green LED)
- Attention/Error (amber LED)
- Audio Beeper

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**Ticket Delivery Options:**
- Desktop (µITX) model: With cutter & ejector; the ticket is ejected after cutting.
- Countertop (pITX) model: With cutter & stacker; the ticket is stacked and held after cutting.
- Either model: Can be configured with a tearbar (no cutter installed).

**Setup Parameters:**
- All optional control features can be changed with a user-friendly switch panel entry.

**Printer Status:**
- Printer status information such as low paper, out of paper, ticket count, and system errors are available to the host PC via IEEE-1284 or Serial RS-232 reverse channel communication.

**Download Memory:**
- 128 K flash standard, expandable to 1.5 Megabyte (special order) for storage of user fonts and logos.

**Print Image Memory:**
- 1 or 1/2 Megabyte depending on configuration.

**Maintenance:**
- Modular design for easy component replacement

All specifications subject to change without notice.

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**Print Length:** 10.9’ (276.9mm) Max.

**Paper Width:**
- ITX 2002/3: 1.89” (48.0mm)
- ITX 3002/3: 3.15” (80.0mm)
- ITX 2002/3: 3.20” (81.3mm)

**Paper Caliper:**
- 0.004”-0.0075” (0.1-0.19mm) typical

**Paper Feed:**
- Friction

**Data Interface (Plug-in Option Modules):**
- **Parallel**
  - IEEE-1284 (bi-directional)
- **Serial**
  - RS-232 (Busy and XON/OFF to 57.6 K baud)
- **USB**
  - IEEE 1284 to USB Adapter Cable (Win2K only)

**Special Purpose I/O:**
- 8 pin mini Din connector for low paper and auxiliary power driver

**Cutter:**
- Life: 1x10^6 cuts (typical)
- Cut Cycle Time: 300 ms max.

**Power Requirements:**
- 24 VDC, 60 W max average, provided by PS60-14 universal input power supply. 90-264VAC, 47/63 Hz, 1.6 A max.

**Regulatory Compliance:**
- **CE Mark:** Compliant
- **Safety:** UL 1950, 3rd Edition
- **CSA**
  - No. 950-95
  - C22.2 No. 950:1992
- **CB SCHEME:** Compliant. Consult factory for countries listed.
- **EMC:**
  - FCC Part 15 Class A
  - CENELEC EN 55022 Class B
  - CENELEC EN 60950:1992
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**All specifications subject to change without notice.**
### Ordering Information

**Enclosure Type**
- $\mu$: Desktop (With Ticket Tray)
- $p$: Countertop Mount

**Dot Density**
- 2 = 203 dpi
- 3 = 300 dpi

**Ticket Width**
- 2 = 2.00”
- 3 = 3.25”

**Firmware**
- Blank = STD Ticket Firmware
- $G$: Windows Compatible (emulates WYSIWYG)
- $C$: Cutter
  - (pITX = w/Ticket Stacker; $\mu$ITX = w/Ticket Ejector)
- $T$: Tearbar

**Ticket Separation**
- $C$: Cutter
  - (pITX = w/Ticket Stack; $\mu$ITX = w/Ticket Ejector)
- $T$: Tearbar

**Data Interface**
- Parallel = IEEE-1284 Parallel Interface
- Serial = Serial RS232 Interface
- USB = USB Serial Interface using IEEE 1284 adapter to USB Adapter Cable (Win 2K only)

**Example: pITX 3003-C-Parallel**
- $p$: Countertop Enclosure
- ITX = Printer Model Number
- 300 = DPI Dot Density
- Blank = Standard Ticket Firmware
- 3 = 3.25” Ticket Width
- $C$: Cutter
- Parallel = Parallel Interface

**PS60-14**
- Line Cord
  - Blank = With US approved line cord
  - $E$: No line cord for export applications

Example of a Complete System Model Number, based on the preceding examples:
- pITX 3003-C-Parallel and PS60-14