Optimum Printing Solutions for Ticketing Systems

The ITX Series, based on Practical Automation’s state-of-the-art IT technology platform, is an innovative series of direct thermal ticket printers. Incorporating a 32-Bit controller platform, a choice of print widths, and a heavy-duty stepper driven cutter, these new printers are designed for use where high quality, fast printing, and long life are 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.
Thermal Ticket Desk/Countertop Printers

203 or 300 dpi Versions

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

Choose a printer to match your needs.
The ITX Series desk/counter printers are available in four versions:
- **eITX** – A desktop style with a locked ticket storage compartment.
- **µITX** – Features a small footprint and an optional external ticket storage assembly.
- **pITX** – A vertically flush mounted countertop design.
- **kITX** – A kiosk mountable printer (request brochure for more details.)

All printers are available with either 203 or 300 dpi resolution. Additionally, the printers can be configured to use tickets ranging in size from two to four inches. Ticket stock is self loading.

The standard printer contains firmware that emulates the most commonly used ticket programming language or a 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 IEEE 1284 Parallel, RS-232C Serial or USB.

**A Practical Ticket Storage Solution**

For the µITX and pITX printers, the GTX-THLP-2 and -4 Ticket Storage Assemblies are designed to conveniently hold up to 2.75 and 4.5-inch fanfold tickets with packaging, 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. The Model eITX printer incorporates an internal, locked ticket storage assembly.
## ITX Series Specifications

**Printing Method:** Direct thermal

**Print Head:**
- **Dot Density:**
  - ITX 2000: 203 DPI (8.0 dots/mm)
  - ITX 3000: 300 DPI (11.8 dots/mm)
- **Dot Cycle Life:**
  - 50 x 10^9 Dot Cycles (typical)
- **Abrasiveness Life:**
  - 2 million inches (50 million mm)
- **Operation:** Dot history controlled
- **Temperature:** Thermostat controlled

**Print Speed:**
- ITX 2000: 10.0 in/sec Max. (254 mm/sec)
- ITX 3000: 8.0 in/sec Max. (203 mm/sec)

**Standard Resident Fonts:**
- 5x7, 5x9 (OCR), 8x16, 13x20 (OCR), 17x31 (OCR), 17x31 (OCR), 15x30 (OCR), 20x40 (Courier), 25x41 (Bold Prestige), 25x49 (Script), 30x52 (OCR), 46x91 (Orator)
- **Language:**
  - Used Standard Ticket Programming
  - “emulates” the most commonly used Standard Ticket Programming Language.

**Standard 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

**Printer Firmware Options:**
- **Standard:** The characteristics noted on this data sheet refer to the standard firmware version. This firmware “emulates” the most commonly used Standard Ticket Programming Language.
- **Windows:**
  - The “G” version is available for ITX2000 and ITX3000 emulation in Windows® for WYSIWYG function. Printer firmware can be updated over the printer’s Data Interface.

**Print Width:**
- ITX 2002: 1.88” (48.0 mm) (384 dots)
- ITX 2003: 2.15” (54.0 mm) (640 dots)
- ITX 2003A: 1.92” (48.8 mm) (576 dots)
- ITX 2004: 1.78” (45.0 mm) (461 dots)

**Print Width (continued):**
- ITX 3002: 3.20” (81.3 mm) (960 dots)
- ITX 3003: 2.86” (72.6 mm) (720 dots)
- ITX 3004: 3.20” (81.3 mm) (960 dots)
- ITX 3005: 3.00” (76.2 mm) (768 dots)
- ITX 3006: 2.60” (66.0 mm) (640 dots)

**Data Interface (Plug-In Interface Options Modules):**
- **Parallel:** IEEE-1284 (bi-directional)
- **Serial:** RS-232 (Busy and XON/OFF) to 57.6 k baud, IEEE-1284, USB or Serial RS-232 available to the host PC via reverse channel communications.
- **USB:** 2.0 Full Speed Compliant

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

**Cutter:**
- **Life:**
  - 1.5 million cuts (typical)
  - 1.0 million cuts (minimum)
- **Cut Cycle Time:**
  - 300 ms max.

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

**Power/Paper (green LED):**
- **Power On/Off**
- **Ready (green LED):**
- **Line Feed (F2):**
- **Test (F1):**
- **Select (F0):**

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

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

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

**Regulatory Compliance:**
- **CE Mark:** Compliant
- **Safety:** UL 1950, 3rd Edition
- **CB SCHEME:** Compliant. Consult factory for countries listed.
- **EMI/EMC:**
  - FCC Part 15 Class A
  - EN 55022 Class B

**All specifications subject to change without notice.**
## Ordering Information
The ITX Product Base Number includes printer with print mechanism and control electronics.

### Enclosure Type
- **e**: Desktop (with locked internal ticket storage)
- **µ**: Desktop (small footprint desktop printer)
- **p**: Countertop Mount (vertical flush mount)

### Dot Resolution
- **2**: 203 dpi
- **3**: 300 dpi

### Ticket Width
- **2**: 2.00”
- **3**: 3.25”
- **3A**: 2.00” – 3.25” Adjustable
- **4A**: 2.00” – 4.00” Adjustable (µITX is not available in a 4.00” width, at this time)
- **4AS**: 2.00” – 4.00” Adjustable (µITX is not available in a 4.00” width, at this time)

### Firmware
- **Blank**: Standard Ticket Firmware (Emulates Standard Ticket Programming Language)
- **G**: Windows® (WYSIWYG) Compatible

### Ticket Separation
- **C**: Cutter (pITX = w/Ticket Retainer; µITX, eITX = w/Ticket Ejector)
- **T**: Tearbar (only for the pITX and the µITX)

### Data Interface
- **Parallel**: IEEE-1284 Parallel Interface
- **Serial**: Serial RS232 Interface

### Additional Accessories

### ITK Series Power Supply
**PS60-14**
- **Line Cord**
  - **Blank**: With US approved line cord
  - **E**: No line cord for export applications

### µITX and µITX Ticket Storage Assembly
**GTX-THLP**
- **Ticket Widths**
  - **2**: Holds up to 2.75” Width (Ticket & Packaging)
  - **4**: Holds up to 4.5” Width (Ticket & Packaging)

### Accessories
<table>
<thead>
<tr>
<th>Description</th>
<th>Model Number</th>
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</thead>
<tbody>
<tr>
<td>Parallel (IEEE 1284) Interface Cable</td>
<td>ATX-PC36</td>
</tr>
<tr>
<td>Serial (9 pin) Interface Cable</td>
<td>ITX-SC09</td>
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<tr>
<td>USB 2.0 A-B Cable</td>
<td>CUSB-206</td>
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<tr>
<td>ETX Adapter plate</td>
<td>ITX-APETX0</td>
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<tr>
<td>Power Supply Holder</td>
<td>PS60-H</td>
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</tbody>
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Example: pITX 3003-C-Parallel
- **p**: Countertop Enclosure (Vertical mount ticket printer)
- **3**: 3.25” Ticket Width
- **C**: Cutter w/ Ticket Retainer
- **µITX = Printer Model Number 300 dpi = Dot Resolution**
- **µITX = w/Ticket Retainer**
- **eITX = w/Ticket Ejector**
- **T**: Tearbar (only for the pITX and the µITX)