

# MX241P Series

# Industrial Barcode Label Printer

# The Next Evolution in High-Speed Printing

The MX241P Series industrial thermal printer is ruggedly built for high volume, high quality label printing. Featuring one of the fastest print speeds in its class, the MX241P Series boosts productivity with quicker processing power, communications and printing speeds. It is ideal for applications that include manufacturing, logistics, shipping, and product identification.

The MX241P Series features three different models. The MX241P prints 203 dpi at speeds up to an amazing 18 ips, MX341P offers higher 300 dpi resolution at speeds up to 14-inches per second, and the MX641P features 600 dpi high resolution which makes it ideal for printing very small 2D barcodes, graphics, fine print, and other ultra-high-resolution images.

Capable of seamless connectivity, the MX241P series supports 802.11 a/b/g/n/ac Wi-Fi and Ethernet enabling dynamic remote printer management powered by SOTI Connect and TSC Console that turns the barcode label printer into a connected network. This series will empower you to meet the needs of around-the-clock, mission-critical labeling applications.

## Key Features

## Sophisticated TSC Sense Care

- Auto scans and detects printhead bad dots during printing
- Support both top and bottom black mark sensors

## High-Performance

- High print speed up to 18 ips
- High-precision label registration supports labels as small as 5mm high

## Excellent Quality for Micro Labels

- Precise media registration in Tear-off mode (min. 3mm label length)

## Dynamic Remote Printer Management

- Supports SOTI Connect through either Ethernet or Wi-Fi
- Powerful TSC Console for printer management

## Rugged Structure

- Durable and reliable, delivers outstanding print quality
- State of the art, robust peel-off capability for labels of all sizes

## Multi-Connectivity

- GPIO: Supports mainstream connector and emulations
- Wi-Fi: Supports 802.11 a/b/g/n/ac with Bluetooth 4.2 combo module

## Applications

## Manufacturing

- Package Labeling
- Receiving Labeling

## Transportation and Logistics

- Work in Process
- Distribution

## Healthcare

- Pharmaceutical Labeling
- Asset Tracking



# MX241P Series Specifications

| Model                    | MX241P                                                                                                                                                                                                                                                                                                                                                                             | MX341P                     | MX641P                    |
|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|---------------------------|
| Resolution               | 8 dots/mm (203 dpi)                                                                                                                                                                                                                                                                                                                                                                | 12 dots/mm (300 dpi)       | 24 dots/mm (600 dpi)      |
| Printing Method          | Thermal Transfer and Direct Thermal                                                                                                                                                                                                                                                                                                                                                |                            |                           |
| Max. Print Speed         | 457mm (18")/second                                                                                                                                                                                                                                                                                                                                                                 | 356mm (14")/second         | 152mm (6")/second         |
| Max. Print Width         | 104mm (4.09")                                                                                                                                                                                                                                                                                                                                                                      |                            |                           |
| Max. Print Length        | 25,400mm (1000")                                                                                                                                                                                                                                                                                                                                                                   | 11,430mm (450")            | 2540mm (100")             |
| Enclosure                | Die-cast print mechanism with large clear media view window                                                                                                                                                                                                                                                                                                                        |                            |                           |
| Physical Dimension       | 300mm (W) x 393mm (H) x 510mm (D)<br>11.81" (W) x 15.47" (H) x 20.08" (D)                                                                                                                                                                                                                                                                                                          |                            |                           |
| Weight                   | 18 kg (39.68 lbs)                                                                                                                                                                                                                                                                                                                                                                  |                            |                           |
| Max. Roll Capacity       | 203.2mm (8") O.D.                                                                                                                                                                                                                                                                                                                                                                  |                            |                           |
| Ribbon                   | 600 meter long, max. OD 90mm, 1" core (ink coated outside/inside)                                                                                                                                                                                                                                                                                                                  |                            |                           |
| Ribbon Width             | 25.4 - 114.3mm (1" - 4.5")                                                                                                                                                                                                                                                                                                                                                         |                            |                           |
| Processor                | 32-bit RISC CPU                                                                                                                                                                                                                                                                                                                                                                    |                            |                           |
| Memory                   | <ul style="list-style-type: none"> <li>512 MB SDRAM, 512 MB Flash memory</li> <li>microSD Flash memory card reader for Flash memory expansion, up to 32 GB</li> </ul>                                                                                                                                                                                                              |                            |                           |
| Interface                | <ul style="list-style-type: none"> <li>RS-232</li> <li>USB 2.0</li> <li>Internal Ethernet, 10/100 Mbps</li> <li>USB host *2 (Front side), for scanner or PC keyboard</li> <li>Centronics</li> <li>GPIO + Centronics (dealer option)</li> <li>Internal Bluetooth MFI 5.0 (factory option)</li> <li>802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 combo module (user option)</li> </ul> |                            |                           |
| Power                    | <ul style="list-style-type: none"> <li>Internal universal switching power supply</li> <li>Input: AC 100-240V, 4-2A, 50-60Hz</li> <li>Output: DC 5V, 5A; DC 24V, 7A; DC 36V, 1.4A; Total 243W</li> </ul>                                                                                                                                                                            |                            |                           |
| LCD                      | 16 bits Color, 480 x 272 pixel, with back light, Resistive Touch Screen                                                                                                                                                                                                                                                                                                            |                            |                           |
| Operation Switch, Button | 1 power switch, 6 operation buttons                                                                                                                                                                                                                                                                                                                                                |                            |                           |
| Sensors                  | <ul style="list-style-type: none"> <li>Gap transmissive sensor (position adjustable)</li> <li>Black mark reflective sensor (Bottom or Top black mark sensor switchable and position adjustable)</li> <li>Ribbon end sensor (transmissive)</li> <li>Head open sensor</li> <li>Ribbon end sensor</li> <li>Ribbon encode sensor</li> <li>Media capacity sensor</li> </ul>             |                            |                           |
| Real Time Clock          | Standard                                                                                                                                                                                                                                                                                                                                                                           |                            |                           |
| Internal Font            | <ul style="list-style-type: none"> <li>8 alpha-numeric bitmap fonts</li> <li>Monotype Imaging® True Type Font engine with CG Triumvirate Bold Condensed scalable font</li> </ul>                                                                                                                                                                                                   |                            |                           |
| Barcode                  | <ul style="list-style-type: none"> <li>1D bar code</li> <li>Code 39, Code 93, Code128UCC, Code128 subsets A,B,C, Codabar, Interleave 2 of 5, EAN-8, EAN-13, EAN-128, UPC-A, UPC-E, EAN and UPC 2(5) digits add-on, MSI, PLESSEY, POSTNET, RSS-Stacked, GS1 DataBar, Code 11, China Post</li> <li>2D bar code</li> <li>PDF-417, Maxicode, DataMatrix, QR code, Aztec</li> </ul>     |                            |                           |
| Font & Barcode Rotation  | 0, 90, 180, 270 degree                                                                                                                                                                                                                                                                                                                                                             |                            |                           |
| Printer Language         | TSPL-EZD (Compatible to EPL, ZPL, ZPL II, DPL)                                                                                                                                                                                                                                                                                                                                     |                            |                           |
| Media Type               | Continuous, die-cut, black mark (Bottom side or top side black mark), fan-fold, notch, perforated, tag                                                                                                                                                                                                                                                                             |                            |                           |
| Media Width              | 20mm - 114mm (0.78" - 4.49")                                                                                                                                                                                                                                                                                                                                                       |                            |                           |
| Media Thickness          | 0.076mm - 0.305mm (2.99mil - 12.01mil)                                                                                                                                                                                                                                                                                                                                             |                            |                           |
| Media Core Diameter      | 76.2mm (3")                                                                                                                                                                                                                                                                                                                                                                        |                            |                           |
| Label Length             | 3 - 25,400mm (0.1" - 1,000")                                                                                                                                                                                                                                                                                                                                                       | 3 - 11,430mm (0.1" - 450") | 3 - 2,540mm (0.1" - 100") |
| Environment Condition    | Operation: 0°C to 40°C (32°F to 104°F), 25 - 85% non-condensing<br>Storage: -40°C to 60°C (-40°F to 140°F), 10 - 90% non-condensing                                                                                                                                                                                                                                                |                            |                           |
| Safety Regulation        | BIS, CB, CCC, CE Class B, EAC, FCC Class B, KC, TUV, UL, cUL, C-Tick Class B, BSMI, Mexico CoC, Energy Star®                                                                                                                                                                                                                                                                       |                            |                           |
| Environmental Concern    | Comply with RoHS, WEEE                                                                                                                                                                                                                                                                                                                                                             |                            |                           |
| Accessories              | <ul style="list-style-type: none"> <li>Windows labeling software CD disk</li> <li>Quick start guide</li> <li>USB cable</li> <li>Power cord</li> </ul>                                                                                                                                                                                                                              |                            |                           |
| Limited Warranty         | <ul style="list-style-type: none"> <li>Printer: 2 years</li> <li>Print head: 25km (1 million inches) or 12 months which comes first</li> <li>Platen: 50km (2 million inches) or 12 months which comes first</li> </ul>                                                                                                                                                             |                            |                           |
| Factory Option           | <ul style="list-style-type: none"> <li>Internal full rewinding kit (Max. 8" OD)</li> <li>Internal Bluetooth 5.0 MFI</li> </ul>                                                                                                                                                                                                                                                     |                            |                           |
| Dealer Option            | <ul style="list-style-type: none"> <li>Peel off module assembly</li> <li>Regular guillotine cutter</li> <li>Rotary heavy-duty cutter</li> <li>GPIO (DB15F) + Parallel interface</li> </ul>                                                                                                                                                                                         |                            |                           |
| User Option              | <ul style="list-style-type: none"> <li>KP-200 Plus keyboard display unit</li> <li>802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 combo module</li> <li>Universal cutter tray</li> </ul>                                                                                                                                                                                                |                            |                           |



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Printing performance may vary depending on ribbon and media combination used.



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