

MX641P Metal Industrial Bar Code Printer, 600 dpi, 6 ips

The TSC MX241P / MX341P / MX641P industrial barcode printer is characterized by top performance and high durability. It is the fastest line of TSC printers on the market. TSC MX241P is capable to print almost half meter belt of the labels each second.

Just at the first sight of the printer you will certainly be attracted by large color touch panel on the front, which makes the operation much more variable and more convenient than using the buttons. However, the MX241P can also be operated in a standard way - under the touch screen there are 6 buttons (Menu, Pause, Feed, Up, Down, and Select).



Despite its size, the MX241P industrial bar code printer is relatively light - both internal mechanism and external housing are aluminum die castings. Precisely designed print mechanism enables fast print at almost half meter per second, even of the very small labels (3 mm) with a 600 m long ribbon, no matter of if the ink is IN or OUT, 24 hours x 7 days without interruption. Time savings acquired from high printing speed are even magnified by the ingeniously designed print mechanism, which enables replacement of media as quickly as possible and without such problems like wrinkled ribbon or necessity of adjusting the labels to the correct line.

All of the TSC bar code printers of the series MX are equipped with RS232, USB and Ethernet interfaces and in addition they have a slot for SDHC memory card. Additionally, your printer may be also equipped with wireless interface Bluetooth or WLAN.

TSC printers have the [Thermal Smart Control technology](#), a patented electronic print head temperature control. Print output is sharper because of that technology and, what's even more important, printhead life is several times longer.

Thanks to the automatic recognition and the instant emulation of any of the mostly used barcode printers command sets (ZPL2 - Zebra, EPL2 - Eltron, DPL - Datamax and SBPL - Sato) is the TSC MX241P printer easy to integrate into almost any of the user systems.

Key features of the TSC barcode printer MX241P / MX341P / MX641P

- high print speed at 18 ips / 14 ips / 6 ips;
- powerful 32-bit processor, 536 MHz multitasking;
- 600 m ink ribbon with ink IN or OUT;
- color touchscreen control panel;
- ruggedness and settings stability thanks the print mechanism and housing made from aluminum die cast;

- automatic emulation of ZPL2, EPL2, DPL and SBPL on the fly, without need for manual switching;
- large memory of 512 MB Flash + 512 MB SDRAM + slot for SDHC memory card;
- RS232, USB and Ethernet interfaces as standard;
- optional wireless interface Bluetooth or WLAN;
- [Thermal](#) Smart Control technology significantly extends printhead life and ensures sharper print output



Technical Description

Functionality & Operation	
Print resolution	600dpi
Maximal print length	2540mm
Print speed	152mm/sec
1D Barcode Symbolologies	All standard one-dimension barcodes
2D Code Symbolologies	all standard 2D-Codes
Print mode	direct thermal, thermal-transfer
Operation interface	7x button, color touch LCD panel
Maximal print width	104mm
Memory	512MB DRAM , micro SD 32 GB
Memory	512MB Flash
Indicators	3x LED
Communication interface	Ethernet, RS232, USB, USB Host , optionally: GPIO, Centronics, WLAN, Bluetooth
Display type	16 bits Color, 480 x 272 pixel, with back light, Resistive Touch Screen
Expansion slot	Micro SD Card (SDHC)
Commands set	TSPL-EZD (Compatible to EPL, ZPL, ZPL II, DPL)
Touch-screen panel	Yes, resistive 5-wire
Fonts & barcode rotation	0°, 90°, 180°, 270°
CPU Type	32-bit RISC
Optical	
Sensors	black mark detector, end-of-media detector, ribbon end sensor, open print-head detector, TT ribbon detector, reflective, transmissive
Mechanical	
Color	black, silver
Dimensions	Width: 300mm, Height: 393mm Length: 510mm
Weight	18kg
Body housing	aluminium
Consumables	
Maximal paper width	114mm
Maximal roll diameter	203.2mm
Media type	datapol, Roll-feed, fan-fold, black-marked media, continuous, polyethylen, printable polyolefin, notch, thermal labels, tickets, textile ribbon
Minimal paper width	20mm
Ribbon width	25.4 to 114.3mm
Max. ribbon diameter	90mm
Max. ribbon length	600m
Ribbon core diameter	25.4mm
Ink of TT ribon	ink-side IN, ink-side OUT
Media thickness	0.076 to 0.305mm
Media core diameter	76.2 to 100.3mm

Minimal label length	3mm
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Environment

Storage temperature	-40 to 60°C
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Storage humidity (non-condensing)	10 to 90%
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Operating humidity (non-condensing)	25 to 85%
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Operating temperature	0 to 40°C
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Others

Certifications	RoHS, WEEE, ENERGY STAR, BIS, CB, CCC, CE Class B, EAC, cUL, KC, TÜV/Safety, UL, C-Tick Class B, BSMI
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Warranty	2 years (printer)
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Warranty	25000m or 12 months (print head)
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Warranty	50000m or 12 months (platen roller)
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