

MH241 and MH261 Series Industrial Barcode Printer

A Feature-Rich MH Family Beyond Your Expectations

The MH241/MH261 Series is TSC's mainstream industrial barcode label printer built upon the legacy of the MH240 Series. It brings new features to those looking for solutions to address evolving business challenges from growing production line demands to increasing operational complexities.

The MH241/MH261 Series is equipped with sophisticated TSC Sense Care supported by SOTI Connect and TSC Console remote printer management to monitor printer status and give warning messages to ensure maximum productivity and avoid downtime.

Capable of seamless connectivity, the MH241/MH261 Series is supported by both Apple-certified MFi Bluetooth 5.0 or 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 combo module that turns the barcode label printer into a connected network.

Key Features

Sophisticated TSC Sense Care

- Self-diagnostic TPH Care mechanism
- Near real-time information and updates for preventative actions
- Selectable media sensor settings

Dynamic Remote Printer Management

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

Multi-Connectivity

- GPIO: Supports common applicators and emulations
- Wi-Fi: Supports 802.11 a/b/g/n/ac and Bluetooth 4.2 combo module

Highly Adaptable

- Precise peel-off capability with 0.5" minimum label length (MH241 Series).
- Supports media width up to 6.8" (MH261 Series)
- Full mechanism for fine adjustment

Brilliant User Experience

- Media near end sensor detection
- Easy printhead and platen roller replacement

Applications

Manufacturing

- Industrial Printing
- Shipping/Receiving Labeling
- Warning/Caution Signage

Transportation and Logistics

- Pallet Labeling
- Distribution

Healthcare

- Pharmaceutical Labeling
- Asset Tracking

TSC PRINTRONIX AUTO ID

MH241 and MH261 Series | Data Sheet





STANDARD			
Model	**MH241**	**MH341**	**MH641**
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	356 mm (14")/second	305 mm (12")/second	152 mm (6")/second
Max. print width	104 mm (4.09")		
Max. print length	25,400 mm (1000")	11,430 mm (450")	2540 mm (100")
Enclosure	Die-cast print mechanism and base with bi-fold metal cover with large clear media view window		
Physical dimension	276 mm (W) x 326 mm (H) x 502 mm (D) 10.87" (W) x 12.83" (H) x 19.76" (D)		
Weight	15.60 kg (34.39 lbs)		
Label roll capacity	203.2 mm (8") O.D.		
Internal rewinder (full roll)	Internal rewinding kit (5" O.D.) (dealer option)		
Ribbon	600 m long, max. O.D. 90 mm, 1" core (ink coated outside or inside)		
Ribbon width	25.4 mm ~ 114.3 mm (1" ~ 4.5")		
Processor	32-bit RISC CPU		
Memory	• 512MB Flash memory • 256MB SDRAM • microSD Flash memory card reader for Flash memory expansion, up to 32 GB		
Interface	• RS-232 • USB 2.0 (High speed mode) • Internal Ethernet, 10/100 Mbps • USB host *2 (Front side), for scanner or PC keyboard • GPIO (DB15F) + Centronics (factory option) • Internal Bluetooth 5.0 MFi (factory option) • Slot-in 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 combo module (dealer option)		
Power	Internal switching power supply • Input: AC 100-240V, 4-2A, 50-60Hz • Output: DC 5V, 5A; DC 24V, 7A; DC 36V, 1.4A; Total 243W		
LCD display/ Operation buttons	• 6 operation buttons • 1 LED (with 2 LEDs Green & Red)		
LCD	3.5" color display, 320 x 240 pixel		
Sensors	• Gap transmissive sensor (position adjustable) • Black mark reflective sensor (Bottom or Top black mark sensor switchable and position adjustable) • Head open sensor • Ribbon encoder sensor • Ribbon end sensor		
Real time clock	Standard		
Internal font	• 8 alpha-numeric bitmap fonts • Monotype Image® true type font engine with CG Triumvirate Bold Condensed scalable font		
Barcode	**1D barcode** 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 **2D barcode** PDF-417, Maxicode, DataMatrix, QR code, Aztec		
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, care label (outside wound)		
Media width	20 ~ 114 mm (0.79" ~ 4.5")		
Media thickness	0.06 ~ 0.28 mm (2.36 ~ 11 mil)		
Media core diameter	3.81 mm / 76.2 mm (1.5"/ 3")		
Label length	5 ~ 25,400 mm (0.20" ~ 1,000")		
Environment condition	• Operation: 0 ~ 40°C (32 ~ 104°F), 25~ 85% non-condensing • Storage: -40 ~ 60 °C (-40 ~ 140°F), 10~ 90% non-condensing		
Safety regulation	FCC Class A, CE Class A, RCM Class A, UL, cUL, TÜV, CCC, KC, BIS, BSMI, EAC, Argentina S mark, Mexico CoC, ENERGY STAR®		
Environmental concern	Comply with RoHS, WEEE		
Accessories	• Windows labeling software CD disk • Quick start guide • USB port cable • Power cord		
RTC & Buzzer	Standard		
Limited warranty	• Printer: 2 years • Print head: 25 km (1 million inches) or 12 months which comes first • Platen: 50 km (2 million inches) or 12 months which comes first		
Factory option	• GPIO (DB15F) + Parallel interface • Internal Bluetooth 5.0 MFi*		
Dealer option	• Regular cutter (full cut guillotine cutter) • Heavy-duty cutter (full cut guillotine cutter) • Care label cutter • 1" I.D. core media spindle • 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 combo module (including slot-in housing) * • Peel-off kit • Internal rewinder kit (5" O.D.)		
User option	• Basic cutter tray • Advanced cutter tray • Universal cutter tray • KP-200 Plus keyboard display unit		

* Availability may vary by region.

TSC PRINTRONIX AUTO ID

MH241 and MH261 Series | Data Sheet





ADVANCED			
Model	**MH241T**	**MH341T**	**MH641T**
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	356 mm (14")/second	305 mm (12")/second	152 mm (6")/second
Max. print width	104 mm (4.09")		
Max. print length	25,400 mm (1000")	11,430 mm (450")	2540 mm (100")
Enclosure	Die-cast print mechanism and base with bi-fold metal cover with large clear media view window		
Physical dimension	276 mm (W) x 326 mm (H) x 502 mm (D) 10.87" (W) x 12.83" (H) x 19.76" (D)		
Weight	15.70 kg (34.61 lbs)		
Label roll capacity	203.2 mm (8") O.D.		
Internal rewinder (full roll)	Internal rewinding kit (5" O.D.) (dealer option)		
Ribbon	600 m long, max. O.D. 90 mm, 1" core (ink coated outside or inside)		
Ribbon width	25.4 mm ~ 114.3 mm (1" ~ 4.5")		
Processor	32-bit RISC CPU		
Memory	• 512MB Flash memory • 256MB SDRAM • microSD Flash memory card reader for Flash memory expansion, up to 32 GB		
Interface	• RS-232 • USB 2.0 (High speed mode) • Internal Ethernet, 10/100 Mbps • USB host *2 (Front side), for scanner or PC keyboard • GPIO (DB15F) + Centronics (factory option) • Internal Bluetooth 5.0 MFi (factory option) • Slot-in 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 combo module (dealer option)		
Power	Internal switching power supply • Input: AC 100-240V, 4-2A, 50-60Hz • Output: DC 5V, 5A; DC 24V, 7A; DC 36V, 1.4A; Total 243W		
LCD display/ Operation buttons	• Multi-language selectable • 6 operation buttons • 1 LED (with 2 LEDs Green & Red)		
LCD	4.3" color display, 480 x 272 pixel; Resistive touch screen		
Sensors	• Gap transmissive sensor (position adjustable) • Black mark reflective sensor (Bottom or Top black mark sensor switchable and position adjustable) • Head open sensor • Ribbon encoder sensor • Ribbon end sensor • Media near end sensor		
Real time clock	Standard		
Internal font	• 8 alpha-numeric bitmap fonts • Monotype Image® true type font engine with CG Triumvirate Bold Condensed scalable font		
Barcode	**1D barcode** 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 **2D barcode** PDF-417, Maxicode, DataMatrix, QR code, Aztec		
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, care label (outside wound)		
Media width	20 ~ 114 mm (0.79" ~ 4.5")		
Media thickness	0.06 ~ 0.28 mm (2.36 ~ 11 mil)		
Media core diameter	3.81 mm / 76.2 mm (1.5"/ 3")		
Label length	5 ~ 11,430 mm (0.20" ~ 450")		
Environment condition	• Operation: 0 ~ 40°C (32 ~ 104°F), 25~ 85% non-condensing • Storage: -40 ~ 60 °C (-40 ~ 140°F), 10~ 90% non-condensing		
Safety regulation	FCC Class A, CE Class A, RCM Class A, UL, cUL, TÜV, CCC, KC, BIS, BSMI, EAC, Argentina S mark, Mexico CoC, ENERGY STAR®		
Environmental concern	Comply with RoHS, WEEE		
Accessories	• Windows labeling software CD disk • Quick start guide • USB port cable • Power cord		
RTC & Buzzer	Standard		
Limited warranty	• Printer: 2 years • Print head: 25 km (1 million inches) or 12 months which comes first • Platen: 50 km (2 million inches) or 12 months which comes first		
Factory option	• GPIO (DB15F) + Parallel interface • Internal Bluetooth 5.0 MFi*		
Dealer option	• Regular cutter (full cut guillotine cutter) • Heavy-duty cutter (full cut guillotine cutter) • Care label cutter • 1" I.D. core media spindle • 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 combo module (including slot-in housing) * • Peel-off kit • Internal rewinder kit (5" O.D.)		
User option	• Basic cutter tray • Advanced cutter tray • Universal cutter tray • KP-200 Plus keyboard display unit		

* Availability may vary by region.

TSC PRINTRONIX AUTO ID

MH241 and MH261 Series | Data Sheet





PREMIUM			
Model	**MH241P**	**MH341P**	**MH641P**
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	356 mm (14")/second	305 mm (12")/second	152 mm (6")/second
Max. print width	104 mm (4.09")		
Max. print length	25,400 mm (1000")	11,430 mm (450")	2540 mm (100")
Enclosure	Die-cast print mechanism and base with bi-fold metal cover with large clear media view window		
Physical dimension	276 mm (W) x 412 mm (H) x 502 mm (D) 10.87" (W) x 16.22" (H) x 19.76" (D)		
Weight	18.93kg (41.73 lbs)		
Label roll capacity	203.2 mm (8") O.D.		
Internal rewinder (full roll)	Standard (8" O.D.)		
Ribbon	600 m long, max. O.D. 90 mm, 1" core (ink coated outside or inside)		
Ribbon width	25.4 mm ~ 114.3 mm (1" ~ 4.5")		
Processor	32-bit RISC CPU		
Memory	• 512MB Flash memory • 256MB SDRAM • microSD Flash memory card reader for Flash memory expansion, up to 32 GB		
Interface	• RS-232 • USB 2.0 (High speed mode) • Internal Ethernet, 10/100 Mbps • USB host *2 (Front side), for scanner or PC keyboard • GPIO (DB15F) + Centronics (factory option) • Internal Bluetooth 5.0 MFi (factory option) • Slot-in 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 combo module (dealer option)		
Power	Internal switching power supply • Input: AC 100-240V, 4-2A, 50-60Hz • Output: DC 5V, 5A; DC 24V, 7A; DC 36V, 1.4A; Total 243W		
LCD display/ Operation buttons	• Multi-language selectable • 6 operation buttons • 1 LED (with 2 LEDs Green & Red)		
LCD	4.3" color display, 480 x 272 pixel; Resistive touch screen		
Sensors	• Gap transmissive sensor (position adjustable) • Black mark reflective sensor (Bottom or Top black mark sensor switchable and position adjustable) • Head open sensor • Ribbon encoder sensor • Ribbon end sensor • Media near end sensor		
Real time clock	Standard		
Internal font	• 8 alpha-numeric bitmap fonts • Monotype Image® true type font engine with CG Triumvirate Bold Condensed scalable font		
Barcode	**1D barcode** 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 **2D barcode** PDF-417, Maxicode, DataMatrix, QR code, Aztec		
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, care label (outside wound)		
Media width	20 ~ 114 mm (0.79" ~ 4.5")		
Media thickness	0.06 ~ 0.28 mm (2.36 ~ 11 mil)		
Media core diameter	3.81 mm / 76.2 mm (1.5"/ 3")		
Label length	5 ~ 2,540 mm (0.20" ~ 100")		
Environment condition	• Operation: 0 ~ 40°C (32 ~ 104°F), 25~ 85% non-condensing • Storage: -40 ~ 60 °C (-40 ~ 140°F), 10~ 90% non-condensing		
Safety regulation	FCC Class A, CE Class A, RCM Class A, UL, cUL, TÜV, CCC, KC, BIS, BSMI, EAC, Argentina S mark, Mexico CoC, ENERGY STAR®		
Environmental concern	Comply with RoHS, WEEE		
Accessories	• Windows labeling software CD disk • Quick start guide • USB port cable • Power cord		
RTC & Buzzer	Standard		
Limited warranty	• Printer: 2 years • Print head: 25 km (1 million inches) or 12 months which comes first • Platen: 50 km (2 million inches) or 12 months which comes first		
Factory option	• GPIO (DB15F) + Parallel interface • Internal Bluetooth 5.0 MFi*		
Dealer option	• 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 combo module (including slot-in housing)*		
User option	• KP-200 Plus keyboard display unit		

* Availability may vary by region.

TSC PRINTRONIX AUTO ID

MH241 and MH261 Series | Data Sheet





Model	MH261T	MH361T
Resolution	8 dots/mm (203 DPI)	12 dots/mm (300 DPI)
Printing method	Thermal Transfer and Direct Thermal	
Max. print speed	305 mm (12")/second	254 mm (10")/second
Max. print width	168 mm (6.61")	
Max. print length	14,732 mm (580")	6,604 mm (260")
Enclosure	Die-cast print mechanism with large clear media view window	
Physical dimension	357 mm (W) x 313 mm (H) x 514 mm (D) 14.05" (W) x 12.32 (H) x 20.24" (D)	
Weight	17.8 kg (39.24 lbs)	
Label roll capacity	208.3 mm (8.2") O.D.	
Internal rewinder (full roll)	Internal rewinder kit (5" O.D.) (dealer option)	
Ribbon	450 m long, max. O.D. 81 mm, 1" core (Ink coated outside or inside)	
Ribbon width	50.8 mm ~ 178 mm (2" ~ 7")	
Processor	32-bit RISC CPU	
Memory	• 512MB Flash memory • 256MB SDRAM • microSD Flash memory card reader for Flash memory expansion, up to 32 GB	
Interface	• RS-232 • Parallel • USB 2.0 (High speed mode) • Internal Ethernet, 10/100 Mbps • USB host *2 (Front side), for scanner or PC keyboard • GPIO (DB15F) (dealer option) • Slot-in 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 combo module (dealer option)	
Power	Auto sensing power supply • Input: AC 100-240V, 4-2A, 50-60Hz • Output: DC 5V, 5A; DC 24V, 7A; DC 36V, 1.4A; Total 243W	
LCD display/ Operation buttons	• Multi-language selectable • 6 operation buttons • 1 LED (with 2 LEDs Green & Red)	
LCD	4.3" color display, 480 x 272 pixel; Resistive touch screen	
Sensors	• Gap transmissive sensor (Position adjustable) • Black mark reflective sensor (Bottom black mark sensor, Position adjustable) • Head open sensor • Ribbon encoder sensor • Ribbon end sensor	
Real time clock	Standard	
Internal font	• 8 alpha-numeric bitmap fonts • Monotype Image® true type font engine with CG Triumvirate Bold Condensed scalable font	
Barcode	**1D barcode** 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 **2D barcode** PDF-417, Maxicode, DataMatrix, QR code, Aztec	
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 black mark only), fan-fold, notch (outside wound)	
Media width	50.8 ~ 172.7 mm (2"~ 6.8")	
Media thickness	0.06 ~ 0.268 mm (2.36~ 11.02 mil)	
Media core diameter	3.81 mm / 76.2 mm (1.5"/ 3")	
Label length	10 ~14,732 mm (0.39"~ 580")	10 ~ 6,604 mm (0.39"~ 260")
Environment condition	• Operation: 0~40°C (32 ~104°F), 25~85% non-condensing • Storage: -40 ~60 °C (-40 ~140°F), 10~90% non-condensing	
Safety regulation	FCC Class A, CE Class A, RCM Class A, UL, cUL, TÜV, CCC, KC, BIS, BSMI, EAC, Argentina S mark, Mexico CoC, ENERGY STAR®	
Environmental concern	Comply with RoHS, WEEE	
Accessories	• Windows labeling software CD disk • Quick start guide • USB port cable • Power cord	
Limited warranty	• Printer: 2 years • Print head: 25 km (1 million inches) or 12 months which comes first • Platen: 50 km (2 million inches) or 12 months which comes first	
Dealer option	• GPIO (DB15F) • Heavy duty cutter • 802.11 a/b/g/n/ac Wi-Fi with Bluetooth 4.2 combo module (including slot-in housing) * • Peel-off kit • Internal rewinder kit (5" O.D.)	
User option	• KP-200 Plus keyboard display unit	

* Availability may vary by region.
Product models and specifications are subject to change without notice.

Bluetooth | Made for iPhone | iPad | iPod | Wi Fi CERTIFIED

TSC Printronix Auto ID Training Academy

Service and Maintenance

TSC PRINTRONIX AUTO ID

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