

WORKGROUP MICR PRINTERS | P 311M

# MICR check printing made easy

The P 311M Desktop MICR Laser Printer prints ANSI-compliant MICR checks at 34 ppm on blank check stock. Swap one cartridge and it handles the rest of your office printing.



## INSIDE

- 34 ppm ANSI-compliant MICR output that fits on a desktop
- All-In-One print cartridge: one full-yield MICR AIO included
- E-13B, CMC-7 and OCR-A fonts included, plus optional CheckStream™

#### THE BOTTOM LINE

The P 311M is our desktop MICR laser printer for a small office or a networked fleet. It prints MICR checks at 34 ppm, handles up to 5,800 prints a month, and ships with a 5,000-page MICR toner cartridge. Every MICR document it prints is guaranteed to meet or exceed ANSI, ABA and Canadian Payments Association standards when you use our approved check stock, supplies, MICR fonts and authorized service.

#### OVERVIEW

## Reliable, fast and easy for businesses of every size

We go to great lengths to make check printing reliable, fast and easy for businesses of every size. Optimized for MICR workflows, the P 311M Desktop MICR Laser Printer fits a small office printing low volumes of checks, or a fleet of networked printers in a larger organization creating thousands of negotiable documents per month.

|                                                            |                                                           |                                                               |                                                              |
|------------------------------------------------------------|-----------------------------------------------------------|---------------------------------------------------------------|--------------------------------------------------------------|
| <b>34 ppm</b><br>ANSI-compliant MICR output                | <b>5,800</b><br>Maximum recommended prints per month      | <b>1200 x 1200</b><br>dpi maximum print resolution            | <b>5,000</b><br>Page MICR toner AIO print cartridge included |
| <b>Productive</b><br>ANSI-compliant MICR output at 34 ppm. | <b>Compact</b><br>Fits on a desktop.                      | <b>Easy</b><br>All-In-One print cartridge technology.         |                                                              |
| <b>Affordable</b><br>Print checks for pennies per page.    | <b>Quality</b><br>Up to 1200 x 1200 dpi print resolution. | <b>MICR optimized</b><br>E-13B and CMC-7 MICR fonts included. |                                                              |

Built on Ricoh's proven All-In-One (AIO) print cartridge technology for performance, image quality and ease of use, the P 311M runs our magnetic toner and MICR fonts. Combined with our CheckStream™ software, it delivers a check printing solution that fits your budget.

The auto-duplexing P 311M prints at up to 34 pages per minute, offers an expandable paper supply for non-stop operation, and uses high-yield AIO print cartridges for maximum uptime and low per-page costs. One full-yield MICR AIO print cartridge is included with every P 311M.

## LOWER COST, GUARANTEED OUTPUT

# One blank check stock for every account

The P 311M cuts check printing expenses by eliminating pre-printed checks for each bank account. It uses the same blank check stock for all accounts.



## Our MICR Quality Guarantee

Every MICR document printed will meet or exceed ANSI, ABA and Canadian Payments Association acceptance standards for adhesion, signal strength, character sharpness and read rates, when you use our approved check stock, supplies, MICR fonts and authorized service.

## Security on every unit

Every P 311M supports current network security standards, including TLS1.3, SNMPv3, user authentication and Locked Print. To physically safeguard check stock, step up to the P 311M Secure with a locking media tray.

## Over 20 years of MICR experience

Every P 311M MICR Laser Printer is backed by over 20 years of our MICR experience and support. Rosetta Technologies plus Ricoh: a combination of value and performance.

## SYSTEM HIGHLIGHTS

# P 311M system highlights

- 350 MHz CPU with 128 MB RAM and standard 10/100Base-TX Ethernet networking processes every job quickly.
- Proven high-yield AIO print cartridge technology for simplified maintenance and low per-page costs.
- Durable and reliable, with a maximum recommended volume of up to 5,800 prints per month and a maximum duty cycle of up to 35,000 prints per month.
- 4-line LCD screen for at-a-glance job and supply status monitoring.
- Our E-13B and CMC-7 MICR fonts and OCR-A fonts included.
- Ships with one 5,000-page yield MICR toner AIO print cartridge.
- Optional CheckStream software simplifies check printing workflows using blank check stock.
- Compact design fits anywhere. Add a second 250-sheet paper tray without occupying more space.
- Securely store up to 5 print jobs in memory for authenticated PIN-release printing with RAM-based Locked Print.

## BEYOND CHECKS

# Fast and affordable general office printing

When you need to print documents other than checks, exchange the MICR toner AIO print cartridge for a standard one. Your P 311M then handles your daily office printing in addition to checks. Each regular toner AIO lasts up to 7,000 pages\*\* for reliable performance with minimal interruption.



Swap the MICR All-In-One (AIO) print cartridge for the standard toner AIO in seconds.

The P 311M is compatible with current Windows, Macintosh and Linux network environments. Print up to 999 sets per job at 34 ppm, with true 1,200 x 1,200 dpi resolution available at 15 ppm for documents that need the highest image quality. Point-and-click drivers for PCL 5e/6 and PostScript3 emulation speed everyday printing, with dozens of features and fonts built in for creative printing in many styles. Print onto envelopes, labels and heavy stocks, and duplex onto media up to 8.5" x 14".

Save space, money and time with the dual-purpose P 311M Desktop MICR Laser Printer: one desktop printer for checks and everything else.

## SPECIFICATIONS

# P 311M specifications

## Main unit

|                        |                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------|
| Type                   | Desktop MICR Black & White Printer                                                                      |
| Imaging technology     | Laser beam with electro-photographic printing                                                           |
| Toner type             | Dry mono-component MICR toner, AIO print cartridge (switchable with standard toner AIO print cartridge) |
| Warm-up time           | 26 seconds or less                                                                                      |
| 1st print time         | 7.1 seconds or less                                                                                     |
| Continuous print speed | 34 pages per minute (Letter)                                                                            |
| Monthly volume         | Up to 5,800 prints/month                                                                                |
| Maximum duty cycle     | Up to 35,000 prints/month                                                                               |
| Operation panel        | Tilting 4-line LCD panel + hard keys                                                                    |
| Output capacity        | 125 sheets (face down)                                                                                  |
| Dimensions (WxDxH)     | 14.6" x 15.4" x 10.3"                                                                                   |
| Weight                 | 28.7 lbs.                                                                                               |
| Power requirements     | 120 to 127V, 60Hz, 7.7A                                                                                 |
| Power consumption      | 512 W operating, 0.66 W sleep                                                                           |

## Ordering information

| Main unit, options and supplies           | Yield         | Part #   |
|-------------------------------------------|---------------|----------|
| P 311M MICR Laser Printer                 |               | 30311000 |
| P 311M Secure MICR Laser Printer          |               | 30311001 |
| 250-sheet Paper Feed Unit                 |               | 31371000 |
| 250-sheet Paper Feed Unit w/Lock          |               | 31371001 |
| MICR Toner All-In-One Print Cartridge     | 5,000 pages*  | 10371000 |
| Standard Toner All-In-One Print Cartridge | 7,000 pages** | 11371000 |

\*Declared yield values based on 4% toner coverage. \*\*Declared yield values based on ISO/IEC 19752. Actual yields may vary based on types of images printed and other factors. For maximum performance and yield we recommend using genuine Rosetta Technologies supplies. The Rosetta Technologies P 311M ships with one full yield MICR Toner All-In-One (AIO) print cartridge yielding approximately 5,000 pages. Specifications subject to change without notice.

## Paper and media

|                                            |                                                                                                                                                                                                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Std. paper supply</b>                   | 250-sheet Tray x 1 + 50-sheet Bypass = 300 sheets                                                                                                                                                               |
| <b>Opt. paper supply</b>                   | 250-sheet Paper Feed Unit x 1                                                                                                                                                                                   |
| <b>Max. paper supply</b>                   | 550 sheets                                                                                                                                                                                                      |
| <b>Auto duplexing</b>                      | Standard (~ 40% productivity), 8.5" x 11" to 8.5" x 14"                                                                                                                                                         |
| <b>Media sizes: standard tray</b>          | 3.9" x 5.8" to 8.5" x 14"                                                                                                                                                                                       |
| <b>Media sizes: bypass tray</b>            | 3.5" x 5.5" to 8.5" x 14"                                                                                                                                                                                       |
| <b>Media sizes: optional PFU</b>           | 5.5" x 8.5" to 8.5" x 14"                                                                                                                                                                                       |
| <b>Media weights: using MICR toner</b>     | 20 to 28 lb. Bond                                                                                                                                                                                               |
| <b>Media weights: using standard toner</b> | 14 to 43 lb. Bond/90 lb. Index                                                                                                                                                                                  |
| <b>Media types</b>                         | 24 lb. Check Stock, 28 lb. Pressure Seal Check Stock, Bond <sup>1</sup> , Cardstock <sup>1</sup> , Colored, Envelopes <sup>2</sup> , Labels <sup>1</sup> , Letterhead, Plain, Preprinted, Recycled, Thick, Thin |

<sup>1</sup> Standard & Bypass Tray only. <sup>2</sup> Bypass Tray only.

## Network operating system support

| Platform               | Supported versions                                               |
|------------------------|------------------------------------------------------------------|
| <b>Windows</b>         | Windows 8.1, 10                                                  |
| <b>Windows Server</b>  | Windows Server 2012/2012R2, 2016, 2019                           |
| <b>Mac OS</b>          | Mac OS 10.10-15, v11                                             |
| <b>Linux: Ubuntu</b>   | Ubuntu 16.04 LTS (x86/x64), 18.04 (x64), 18.10 (x64)             |
| <b>Linux: openSUSE</b> | openSUSE Leap 42.3                                               |
| <b>Linux: Red Hat</b>  | Red Hat Enterprise Linux 6.7, 6.8, 6.9, 6.10, 7.3, 7.4, 7.5, 7.6 |
| <b>Linux: Boss</b>     | Boss Linux v6                                                    |

## Controller

|                                |                                                                                                                                                              |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CPU</b>                     | ARM11 @ 350 MHz                                                                                                                                              |
| <b>Memory</b>                  | 128 MB RAM standard/maximum                                                                                                                                  |
| <b>Standard interfaces</b>     | 10/100Base-TX Ethernet, USB 2.0 Type B                                                                                                                       |
| <b>Optional interface</b>      | IEEE 802.11 a/b/g/n Wireless LAN                                                                                                                             |
| <b>Print resolution</b>        | 600 x 600 dpi (Windows, Mac, Linux)<br>1200 x 600 dpi (Windows)<br>1200 x 1200 dpi (at 15-ppm) (Windows, Linux)                                              |
| <b>PDL support</b>             | PCL 5e, PCL 6, PostScript 3 emulation (Windows only)                                                                                                         |
| <b>Fonts</b>                   | MICR: E-13B, CMC-7, OCR-A<br>PCL 5e/6: 45 Scalable fonts +10 Bitmapped fonts<br>PS3 emu.: 35 Scalable fonts                                                  |
| <b>Network protocols</b>       | TCP/IP                                                                                                                                                       |
| <b>Mobile printing support</b> | RICOH Smart Device Connector, Apple AirPrint®, Mopria®                                                                                                       |
| <b>Advanced features</b>       | 1 to 999 Print Quantity, Collate, Dithering, Duplexing, Do Not Print Blank Pages, Front Cover, Layout/N-up, Reduce/Enlarge, Rotate, Toner Saving, Watermarks |
| <b>Security features</b>       | IPSec, RAM-based Locked Print (PCL only), TLS1.3, SNMPv3, User Authentication, WEP (with Wireless LAN option)                                                |
| <b>Utilities</b>               | Rosetta Technologies CheckStream (Optional), Ricoh Web Image Monitor, Ricoh @Remote (limited support), Ricoh Device Manager NX Lite                          |



P 311M Secure: a locking media tray physically safeguards check stock.

FROM ROSETTA TECHNOLOGIES

# One desktop printer for checks and everything else

The P 311M prints guaranteed MICR checks at 34 ppm on blank check stock, then switches to everyday office printing with one cartridge swap. Rosetta Technologies, 5912 Breckenridge Parkway, Tampa, FL 33610.

## Guaranteed MICR

ANSI, ABA and Canadian Payments Association acceptance standards, met or exceeded with our approved check stock, supplies, MICR fonts and authorized service.

## Genuine supplies

MICR toner AIO print cartridge: 5,000 pages\*. Standard toner AIO print cartridge: 7,000 pages\*\*.

## P 311M Secure

A locking media tray physically safeguards your check stock.

Tell us how many checks you print and where, and we will configure the P 311M for the job.

[Contact us](#)[rosettatechnologies.com](http://rosettatechnologies.com)(800) 937-4224 | [info@rosettatechnologies.com](mailto:info@rosettatechnologies.com)

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