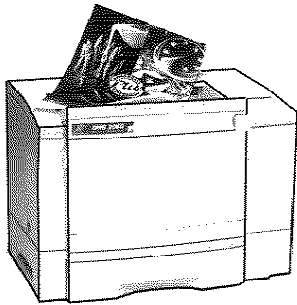# QMS 2060
Print System

Designed with powerful features for operation in highly varied application environments, the QMS® 2060 Print System Family offers versatility and affordability to small and medium size workgroups.

This print system family includes the QMS 2060 BX with a higher letter input capacity for the general business user; the QMS 2060 GX with large paper formats and additional memory for support of graphic arts applications; and the QMS 2060 EX, designed with standard 1200 dpi resolution, and edge-to-edge printing capabilities on large page sizes for the pre-press industry.

To the business workgroup environment, the QMS 2060 brings speed, diverse document handling capabilities, and standard network connectivity. Based on a 100 MHz, NEC V$_R$4300™ RISC processor and QMS Crown® controller architecture, the 20 ppm QMS 2060 Print System offers dependable, consistent functionality for workgroup printing requirements. Users can expect further convenience with the printer's duplexing capability, varied print media support, and standard QMS CrownNet™ for Ethernet network interface.

For the graphic arts, desktop publishing, and pre-press industries, the QMS 2060 offers multiple features for flexibility in page layout and design. The QMS 2060 Print System accepts media sizes ranging from postcard to 13" x 19", and allows users to print edge-to-edge on ledger, A3, 12" x 19", and 13" x 19" page sizes. Capable of 1200 x 1200 dpi resolution, output reveals saturated blacks, crisp edges, and finely detailed halftones.

The QMS 2060 Print System. The feature-rich, versatile workgroup printing solution.

Print System Features:

Speed
♦ The QMS 2060 Print System features a 64-bit NEC V$_R$4300 RISC processor running at 100 MHz and utilizes QMS Crown multitasking technology to process documents at speeds up to 20 ppm on letter/A4 page sizes.

Versatility
♦ Users can choose from three configurations —the QMS 2060 BX with 8 MB RAM and a 500 sheet letter paper tray for 600 x 600 dpi printing on letter/A4 page sizes; the QMS 2060 GX with 16 MB RAM and a 250 sheet Universal paper tray for 600 x 600 dpi printing on all page sizes; and the QMS 2060 EX with 48 MB RAM, a 250 sheet Universal paper tray, an internal hard drive, and QMS Multi-Res™ board for 1200 x 1200 dpi printing on all supported page sizes. A CrownNet for Ethernet interface is standard with each print system. Users can easily upgrade each system to meet future printing requirements.

♦ With the capability of printing on media as small as a 3.94" x 5.83" postcard to a large 13" x 19" edge-to-edge page, the QMS 2060 serves multiple application demands with ease.

♦ The QMS 2060 Print System is capable of printing 1200 x 1200 dpi on page sizes up to edge-to-edge 13" x 19". For the graphic arts and prepress industry, this feature brings exceptional output that can be used as accurate prepress proofs and camera-ready originals.

Printer Management
♦ QMS CrownAdmin2 printer management software provides real-time printer status retrieval, remote printer configuration, and advanced print control capabilities for Windows and UNIX environments.

♦ Advanced graphical Windows drivers provide easy-to-use point-and-click selections for enhanced image control and fast print performance. Windows utilities facilitate "serverless printing" by allowing print jobs to bypass the network server entirely, significantly reducing network traffic and server degradation.

Document Handling Capabilities
♦ An optional duplexing unit is available for two-sided printing on page sizes ranging from executive to ledger/A3.

♦ Printer-based document processing allows users to perform n-up (thumbnail), booklet, and background printing, as well as job accounting.

♦ Printer-based electronic collation stores the print job at the printer level, freeing the host system and increasing user productivity.

♦ For workgroups requiring increased paper handling, a user-installable optional lower paper feeder—configured with either a 500 sheet letter or A4 paper tray, or 250 sheet Universal paper tray—can be added.

♦ QMS CrownCopy™ option allows the QMS 2060 to operate as a local convenience copier.

QMS®

Choice of Configurations

◆ **QMS 2060 BX** with 8 MB RAM provides 600 x 600 dpi resolution on letter/A4 page sizes. Includes 500 sheet letter input paper tray.

◆ **QMS 2060 GX** with 16 MB RAM provides 600 x 600 dpi resolution on all page sizes. Includes 250 sheet Universal input paper tray.

◆ **QMS 2060 EX** with 48 MB RAM provides 1200 x 1200 dpi resolution on page sizes up to edge-to-edge universal (13" x 19"). Includes 250 sheet Universal input tray, 540 MB internal IDE hard disk, and QMS Multi-Res daughterboard.

Technical Specifications
THE PRINTING PROCESS

◆ **Print Method**—Electrophotographic recording with semiconductor laser.

◆ **Resolution**—600 x 600 dpi standard on QMS 2060 BX and QMS 2060 GX. 1200 x 1200 dpi standard on QMS 2060 EX. All configurations 1200 x 1200 dpi capable with the addition of a Multi-Res daughterboard and sufficient memory. Multi-Res board also facilitates edge smoothing at 600 dpi.

◆ **Print Speed**—Up to 20 ppm letter/A4, 11 ppm ledger/A3.

◆ **Recommended Duty Cycle**—Up to 50,000 prints per month.

THE HARDWARE AND SOFTWARE CAPABILITIES

◆ **Type**—Based on a 64-bit NEC V_R4300 RISC processor operating at 100 MHz and utilizing QMS Crown technology.

◆ **Memory**—Each system contains 8 MB of FLASH memory for storage of system code. This enables remote loading of software upgrades without requiring physical access to the controller. Standard RAM is user-configurable and expandable via four controller SIMM slots to a total of 128 MB using 4, 8, 16, and 32 MB standard SIMMs.

◆ **Internal IDE Hard Disk**—A 540 MB IDE internal hard disk is standard in QMS 2060 EX for resident fonts and forms storage, job spooling, and expanded virtual memory. Optional hard disk available for QMS 2060 BX and 2060 GX. QMS 2060 Print Systems support an internal IDE hard disk up to 2.2 GB.

◆ **External Hard Disk (optional)**—Provides permanent storage of downloadable typefaces and emulations. Up to three external hard disks can be daisy-chained to the printer's SCSI connection.

◆ **Printer Emulations**—Standard emulations include PostScript® Level 2, HP PCL® 5e/GL2, HP-GL® 7475A/7550/DraftMaster, and Lineprinter. Optional LN03™ Plus and QUIC® II emulations are available (hard drive and sufficient memory required).

◆ **Typefaces**—42 resident PostScript fonts, 45 scalable and 6 bitmap HP PCL 5e fonts, and 40 HP-GL/2 fonts. TrueType font support in PostScript and PCL. The QMS 2060 supports Type 1 and Type 3 downloaded PostScript fonts.

INTERFACE SUPPORT

◆ **Simultaneous Interface Operation (SIO)**—Enables all of the printer's interfaces to receive data simultaneously.

◆ **Standard Interfaces**—QMS CrownNet for Ethernet (10BaseT and coax) supports NetWare® IPX/SPX; TCP/IP; EtherTalk™; OS/2® LAN Manager/LAN Server NetBIOS/NetBEUI; and Windows® 3.1x, NT, and 95 NetBIOS/NetBEUI protocols, and bidirectional IEEE 1284 parallel (supports Microsoft® 'Plug and Play'). SCSI port available for connecting external hard drives and QMS CrownCopy option.

◆ **Optional Interfaces**—QMS CrownNet for Token-Ring (STP and UTP) supports NetWare IPX/SPX; TCP/IP; OS/2 LAN Manager/LAN Server NetBIOS/NetBEUI; and Windows 3.1x, NT, and 95 NetBIOS/NetBEUI protocols. DECnet® TCP/IP (10BaseT), LocalTalk™, and RS-232 serial interfaces also available.

◆ **Optional IBM Interfaces**—Ethernet, Token-Ring, coax, or twinax for IBM® IPDS; coax or twinax for non-IPDS (SCS); RS-232C serial, Centronics® parallel, or coax for Xerox® XES/UDK.

PAPER HANDLING

◆ **Paper Sizes Supported**—Letter, legal, ledger, A3, A4, A5, B4, B5, 8½" x 13", 12" x 19", statement, universal (13" x 19"), executive, and postcard; DL, C5, Com 10, Monarch, and 6.93" x 9.76" envelopes.

◆ **Paper Input**—One 500 sheet letter tray with QMS 2060 BX, one 250 sheet Universal tray with QMS 2060 GX and QMS 2060 EX (supports up to ledger/A3 paper sizes); one 150 sheet multipurpose input tray (supports all paper sizes). Both the Universal tray and multipurpose tray support edge-to-edge printing on ledger/A3 paper sizes. Edge-to-edge printing on 12" x 19" and 13" x 19" paper sizes is supported through the multi purpose tray only.
Optional Paper Input—Lower paper feeder with choice of 500 sheet letter or A4 paper tray, or 250 sheet Universal paper tray.

◆ **Paper Output**—500 sheet face down output tray.

◆ **Duplexing (Optional)**—For two-sided printing on page sizes from executive to ledger/A3.

◆ **Printable Area**—Edge-to-edge printing is supported on ledger, A3, 12" x 19", and 13" x 19" pages and requires no minimum border along the page edge. Edge-to-edge printing is a special technique useful for adding crop marks and for bleeding images completely off the page edge. The maximum print area for all other page sizes is 4 mm from all page edges. This includes letter, legal, 8½" x 13", A4, A5, B4, B5, statement, executive, and postcard page sizes; and DL, C5, Com 10, Monarch, and 6.93" x 9.76" envelopes.

◆ **Print Media**—Printer uses standard office paper and letterhead through input cassettes and multipurpose tray. Additionally, multipurpose tray supports approved transparency material, approved laser-quality labels, heavy paper stocks, and envelopes.

◆ **Paper Weights**—16 to 24 lb. (60 to 90 g/m²) through cassettes. Up to 42 lb. (157 g/m²) through multipurpose tray.

◆ **Automatic Jam Recovery**—Printer automatically reprints jammed pages.

PHYSICAL

◆ **Type**—Laser printer with internal controller.

◆ **Dimensions**—(W x D x H) 21.5" x 15.1" x 15.9" (545 mm x 383 mm x 403 mm).

◆ **Weight**—
Printer–51 lbs. (23 kg).
Toner Cartridge–4.4 lbs. (2 kg).

ELECTRICAL

◆ **Power Requirements**—
120V Model–108 to 132 VAC, 60 Hz.
230V Model–207 to 253 VAC, 50 Hz.

◆ **Power Consumption**—
Operating–750W or less
Standby–200W or less
Power Save–30W or less

◆ **Energy Star compliant.**

ENVIRONMENTAL

◆ **Temperature Requirements**—
Operating–50° to 95° (10° to 35°C).
Non-Operating–32° to 95º (0° to 35°C).

◆ **Humidity**—
Operating–15 - 85% RH, non-condensing.
Non-Operating–10 - 95% RH, non-condensing.

◆ **Noise Level**—
Operating–53 dBA
Standby–38 dBA

REGULATORY/SAFETY CONFORMITY

◆ **FCC-A, DOC -B, VCCI-2, UL, CSA, CE Marking.**

WARRANTY

◆ **One year (on site).**

CONSUMABLES

◆ The QMS 2060 Print System uses a single component dry toner for clean, easy replacement. A toner cartridge yields 10,000 prints at 5% coverage.

RESIDENT POSTSCRIPT FONTS

Avant Garde (Normal, Demi, Oblique, Demi Oblique)
Bookman® (Light, Light Italic, Demi, Demi Italic)
Courier (Normal, Bold, Oblique, Bold Oblique)
Helvetica® (Normal, Bold, Oblique, Bold Oblique)
Helvetica Narrow® (Normal, Bold, Oblique, Bold Oblique)
Helvetica Condensed® (Normal, Bold, Oblique, Bold Oblique)
New Century Schoolbook (Normal, Italic, Bold, Bold Italic)
Palatino® (Normal, Bold, Italic, Bold Italic)
Times Roman® (Normal, Italic, Bold, Bold Italic)
Zapf Chancery® Medium Italic
✦✱✔☞✝○▲ (Zapf Dingbats®)
Σψμβολ (Symbol Set)
LetterGothicML
LetterGothicUS
OCR B