
OPTIMIZE^{IT}

Novell®

Kyocera Printers & Multi-Functional Devices in Novell NetWare® Environments

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Document Solutions

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TESTING ENVIRONMENT

All tests are performed using various Microsoft Windows® Operating Systems as well as the most current versions of Novell NetWare.

WINDOWS VERSIONS	NOVELL VERSIONS
Windows 98 SE	Novell NetWare 5.1
Windows NT 4 SP6	Novell NetWare 6.0
Windows 2000 SP4	Novell NetWare 6.5
Windows XP SP1	All with the latest service packs and the latest NetWare clients.

Testing performed by Kyocera

Kyocera (KTD¹) is a Novell YES certified testing lab. In order to be certified by Novell, all products must run through a series of automated tests that are designed by Novell.

Printer tests are conducted using the Novell Test Tools Printer Module. The programmed tests are listed below:

LPR/LPD

- Public and Private Printers
- PDriver downloads - using the latest Kyocera Print Drivers
- PStatus test
- POutput pause
- PLarge text
- PGraphics and large graphics
- PMultiple text
- PMultiple graphics
- PFetch attributes

QServer

- PDriver downloads
- PStatus test
- PLarge text
- PGraphics and large graphics
- PMultiple text
- PMultiple graphics
- PFetch attributes

Multiple jobs – the Test Tools Printer Module sends 1000's of jobs simultaneously to the printer while monitoring the queue to see if all jobs are handled properly.

¹ KTD -Kyocera Technology Development, Inc.

The Following pages identify the Kyocera devices and utilities that are currently supported in a Novell NetWare environment.

NDPS GATEWAY						
Version	NetWare Versions Tested	HDD Space (Server)	RAM (Server)	Tested Printer Modes	Transport Protocols	Uses or Stores NDS Records
1.211	6	5.8 MB	564 MB	LPR / LPD	IPX SPX TCP UDP	Yes
1.208	5.1	5.8 MB	562 MB	LPR / LPD / Qserver-Mode	IPX SPX TCP UDP	Yes

PRINT SERVER						
Version	NetWare Versions Tested	Printer Interfaces	Tested Printer Modes	Transport Protocols	Uses or Stores NDS Records	Supported Protocols
IB-20 / IB-21	NetWare 4.2 NetWare 5.1	Ethernet 100 Base-T	LPR / LPD QServer-Mode Ethernet 10Base-T Ethernet BNC	IPX/SPX TCP UDP	Yes	ARP /AppleTalk / DHCP /EtherTalk / FTP /HTTP /IPP / LPD /LPR / Microsoft WINS / NDPS NDS /NetBEUI / NetBIOS /RARP / SMB /SNMP /TFTP
IB-21E	NetWare 5.1 NetWare 6	Ethernet 100 Base-T Ethernet 10Base-T	LPR / LPD / Qserver-Mode	IPX/SPX TCP UDP	Yes	ARP /AppleTalk / DHCP /EtherTalk / FTP /HTTP /IPP / LPD /LPR / Microsoft WINS / NDPS /NDS / NetBEUI /NetBIOS / RARP /SNMP
IB-22	NetWare 5.1 NetWare 6	802.11B	LPR / LPD / Qserver-Mode	IPX/SPX TCP/IP UDP		N/A N/A

MONOCHROME LASER PRINTERS							
Version	NetWare Versions Tested	Printer Configuration Software/ Gateway	Printer Interfaces	Tested Printer Modes	Tested Transport Protocols	Uses or Stores NDS Records	Supported Protocols
FS-1000+	NetWare 5.1 NetWare 6	KM-NET Viewer	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T Ethernet BNC	LPR/LPD QServer-Mode	IPX, SPX, TCP, UDP	Yes	ARP, AppleTalk, DHCP, EtherTalk, FTP, HTTP, IPP, LPD, LPR, Microsoft WINS, NDPS, NDS, NetBEUI, NetBIOS, RARP, SNMP
FS-1010	NetWare 5.1 NetWare 6	Kyocera Mita Print Monitor	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T Ethernet BNC USB	LPR/LPD QServer-Mode	IPX, SPX, TCP, UDP	Yes	ARP, AppleTalk, DHCP, EtherTalk, FTP, HTTP, IPP, LPD, LPR, Microsoft WINS, NDPS, NDS, NetBEUI, NetBIOS, RARP, SNMP
FS-1020D	NetWare 5.1 NetWare 6	NDPS Gateway 2.0.723	Ethernet 100Base-T Ethernet 10Base-T Parallel USB	LPR/LPD QServer-Mode	N/A	N/A	N/A
FS-1800	NetWare 4.2 NetWare 5.1	N/A	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T Ethernet BNC	LPR/LPD QServer-Mode	IPX, SPX, TCP, UDP	Yes	ARP, AppleTalk, DHCP, EtherTalk, FTP, HTTP, IPP, LPD, LPR, Microsoft WINS, NDPS, NDS, NetBEUI, NetBIOS, RARP, SNMP
FS-1800+	NetWare 5.1 NetWare 6	Kyocera Mita Print Monitor	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T Ethernet BNC	LPR/LPD QServer-Mode	IPX, SPX, TCP, UDP	Yes	ARP, AppleTalk, DHCP, EtherTalk, FTP, HTTP, IPP, LPD, LPR, Microsoft WINS, NDPS, NDS, NetBEUI, NetBIOS, RARP, SNMP
FS-1900	NetWare 5.1 NetWare 6	Kyocera Mita Print Monitor	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T Ethernet BNC USB	LPR/LPD QServer-Mode	IPX, SPX, TCP, UDP	Yes	ARP, AppleTalk, DHCP, EtherTalk, FTP, HTTP, IPP, LPD, LPR, Microsoft WINS, NDPS, NDS, NetBEUI, NetBIOS, RARP, SNMP

MONOCHROME LASER PRINTERS							
Version	NetWare Versions Tested	Printer Configuration Software/ Gateway	Printer Interfaces	Tested Printer Modes	Tested Transport Protocols	Uses or Stores NDS Records	Supported Protocols
FS-1920	NetWare 5.1 NetWare 6	NDPS Gateway 2.01105	Ethernet 100Base-T Ethernet 10Base-T IEEE 1284 USB	LPR/LPD QServer-Mode	N/A	N/A	N/A
FS-3800	NetWare 4.2 NetWare 5.1	N/A	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T Ethernet BNC	LPR/LPD QServer-Mode	IPX, SPX, TCP, UDP	Yes	ARP, AppleTalk, DHCP, EtherTalk, FTP, HTTP, IPP, LPD, LPR, Microsoft WINS, NDPS, NDS, NetBEUI, NetBIOS, RARP, SNMP
FS-3800N	NetWare 5.1 NetWare 6	NDPS Gateway 2.01120	Ethernet 100Base-T Ethernet 10Base-T IEEE 1284 RJ-45 USB	LPR/LPD QServer-Mode	N/A	N/A	N/A
FS-9100DN	NetWare 5.1 NetWare 6	KM-NET Viewer	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T Ethernet BNC	LPR/LPD QServer-Mode	IPX, SPX, TCP, UDP	Yes	ARP, AppleTalk, DHCP, EtherTalk, FTP, HTTP, IPP, LPD, LPR, Microsoft WINS, NDPS, NDS, NetBEUI, NetBIOS, RARP, SNMP
FS-9500DN	NetWare 5.1 NetWare 6	KM-NET Viewer	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T Ethernet BNC	LPR/LPD QServer-Mode	IPX, SPX, TCP, UDP	Yes	ARP, AppleTalk, DHCP, EtherTalk, FTP, HTTP, IPP, LPD, LPR, Microsoft WINS, NDPS, NDS, NetBEUI, NetBIOS, RARP, SNMP
FS-9520DN	NetWare 5.1 NetWare 6	NDPS Gateway 2.01017	Ethernet 100Base-T Ethernet 10Base-T IEEE 1284 RJ-45 USB	LPR/LPD QServer-Mode	N/A	N/A	N/A

COLOR LASER PRINTERS

Version	NetWare Versions Tested	Printer Configuration Software/ Gateway	Printer Interfaces	Tested Printer Modes	Tested Transport Protocols	Uses or Stores NDS Records	Supported Protocols
FS-8000C	NetWare 5.1 NetWare 6	KM-NET Viewer	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T Ethernet BNC	LPR/LPD QServer-Mode	IPX, SPX, TCP, UDP	Yes	ARP, AppleTalk, DHCP, EtherTalk, FTP, HTTP, IPP, LPD, LPR, Microsoft WINS, NDPS, NDS, NetBEUI, NetBIOS, RARP, SNMP
KM-C830	NetWare 5.1 NetWare 6	N/A	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T RS-232C Serial 25-Pin	LPR/LPD QServer-Mode	N/A	N/A	N/A
KM-C850	NetWare 5.1 NetWare 6	N/A	Ethernet 100Base-T Ethernet 10Base-T IEEE 1284 RJ-45 USB	LPR/LPD QServer-Mode	N/A	N/A	N/A
FS-C8008N	NetWare 5.1 NetWare 6	NDPS Gateway 1.2.4.3	Ethernet 100Base-T Ethernet 10Base-T IEEE 1284 RJ-45 USB	IPP LPR/LPD QServer-Mode	IPX, SPX, TCP, UDP	N/A	N/A
FS-C5016	NetWare 5.1 NetWare 6	NDPS Gateway 1.2.4.3	Ethernet 100Base-T Ethernet 10Base-T IEEE 1284 RJ-45 USB	IPP LPR/LPD QServer-Mode	N/A	N/A	N/A
FS-8026N	NetWare 5.1 NetWare 6	NDPS Gateway 3.0.0723	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T RS-232C Serial 25-Pin	LPR/LPD QServer-Mode	N/A	N/A	N/A

COPIER / PRINTER							
Version	NetWare Versions Tested	Printer Configuration Software/ Gateway	Printer Interfaces	Tested Printer Modes	Tested Transport Protocols	Uses or Stores NDS Records	Supported Protocols
KM-1510	NetWare 4.2 NetWare 5.1	Kyocera Mita Print Monitor	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T Ethernet BNC	LPR/LPD QServer-Mode	IPX, SPX, TCP, UDP	Yes	ARP, AppleTalk, DHCP, EtherTalk, FTP, HTTP, IPP, LPD, LPR, Microsoft WINS, NDPS, NDS, NetBEUI, NetBIOS, RARP, SNMP
KM-1810	NetWare 4.2 NetWare 5.1	Kyocera Mita Print Monitor	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T Ethernet BNC	LPR/LPD QServer-Mode	IPX, SPX, TCP, UDP	Yes	ARP, AppleTalk, DHCP, EtherTalk, FTP, HTTP, IPP, LPD, LPR, Microsoft WINS, NDPS, NDS, NetBEUI, NetBIOS, RARP, SNMP
KM-2030	NetWare 4.2 NetWare 5.1	Kyocera Mita Print Monitor	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T Ethernet BNC	LPR/LPD QServer-Mode	IPX, SPX, TCP, UDP	Yes	ARP, AppleTalk, DHCP, EtherTalk, FTP, HTTP, IPP, LPD, LPR, Microsoft WINS, NDPS, NDS, NetBEUI, NetBIOS, RARP, SNMP
KM-2530	NetWare 5.1 NetWare 6	KM-NET Viewer	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T Ethernet BNC	LPR/LPD QServer-Mode	IPX, SPX, TCP, UDP	Yes	ARP, AppleTalk, DHCP, EtherTalk, FTP, HTTP, IPP, LPD, LPR, Microsoft WINS, NDPS, NDS, NetBEUI, NetBIOS, RARP, SNMP
KM-3035	NetWare 5.1 NetWare 6	NDPS Gateway 2.0821	Centronics RJ-45 USB	LPR/LPD QServer-Mode	N/A	N/A	N/A
KM-3530	NetWare 5.1 NetWare 6	KM-NET Viewer	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T Ethernet BNC	LPR/LPD QServer-Mode	IPX, SPX, TCP, UDP	Yes	ARP, AppleTalk, DHCP, EtherTalk, FTP, HTTP, IPP, LPD, LPR, Microsoft WINS, NDPS, NDS, NetBEUI, NetBIOS, RARP, SNMP
KM-4035	NetWare 5.1 NetWare 6	NDPS Gateway 2.0821	Centronics RJ-45 USB	LPR/LPD QServer-Mode	N/A	N/A	N/A

COPIER/PRINTER							
Version	NetWare Versions Tested	Printer Configuration Software/ Gateway	Printer Interfaces	Tested Printer Modes	Tested Transport Protocols	Uses or Stores NDS Records	Supported Protocols
KM-4530	NetWare 5.1 NetWare 6	NDPS Gateway 1.2.4.3	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T	LPR/LPD QServer-Mode	N/A	N/A	N/A
KM-5035	NetWare 5.1 NetWare 6	NDPS Gateway 2.0821	Centronics RJ-45 USB	LPR/LPD QServer-Mode	N/A	N/A	N/A
KM-5530	NetWare 5.1 NetWare 6	NDPS Gateway 1.2.4.3	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T	LPR/LPD QServer-Mode	N/A	N/A	N/A
KM-6330	NetWare 5.1 NetWare 6	NDPS Gateway 1.2.4.3	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T RJ-45 RS-232C Serial 25-Pin	LPR/LPD QServer-Mode	N/A	N/A	N/A
KM-7530	NetWare 5.1 NetWare 6	NDPS Gateway 1.2.4.3	Bi-Directional Parallel Ethernet 100Base-T Ethernet 10Base-T RJ-45 RS-232C Serial 25-Pin	LPR/LPD QServer-Mode	N/A	N/A	N/A

KYOCERA PRINTERS AND MULTIFUNCTIONAL DEVICES AND SUPPORTED DRIVER VERSIONS

The table on this page identifies the Kyocera Devices and Print Drivers that are currently supported in a Novell NetWare environment. As new drivers become available, they will be tested for compatibility.

Device	Supported in Novell/ Environments by Kyocera	Kyocera Supported Driver Versions for install on Server		
		Certified Uni Driver		KX Driver
		PCL	PS	PCL, PS
KM-7530	Yes	V.3.2	V.7.4	V.2.3.0211
KM-6330	Yes	V.3.2	V.7.4	V.2.3.0211
KM-5530	Yes	V.3.2	V.7.4	V.2.3.0211
KM-5035	Yes	V.3.2	V.7.4	V.2.3.0211
KM-4530	Yes	V.3.2	V.7.4	V.2.3.0211
KM-4035	Yes	V.3.2	V.7.4	V.2.3.0211
KM-3035	Yes	V.3.2	V.7.4	V.2.3.0211
KM-2030	Yes	V.3.2	V.7.4	V.2.3.0211
KM-1810	Yes	V.3.2	V.7.4	V.2.3.0211
KM-1530	Yes	V.3.2	V.7.4	V.2.3.0211
KM-1510	Yes	V.3.2	V.7.4	V.2.3.0211
KM-C850D	Yes	V.3.2	V.7.4	V.2.3.0211
FS-C8008N/DN	Yes	V.3.2	V.7.4	V.2.3.0211
FS-C5016N	Yes	V.3.2	V.7.4	V.2.3.0211
FS-9520DN	Yes	V.3.2	V.7.4	V.2.3.0211
FS-9120DN	Yes	V.3.2	V.7.4	V.2.3.0211
FS-3830N	Yes	V.3.2	V.7.4	V.2.3.0211
FS-3820N	Yes	V.3.2	V.7.4	V.2.3.0211
FS-1920	Yes	V.3.2	V.7.4	V.2.3.0211
FS-1020D	Yes	V.3.2	V.7.4	V.2.3.0211
FS-1010	Yes	V.3.2	V.7.4	V.2.3.0211

Kyocera Certified Uni Driver

The Kyocera Certified Uni Driver is certified by Microsoft and is available as a PCL or PostScript (KPDLL) driver for Microsoft Windows.

Kyocera KX Driver

The Kyocera Extended Driver (KX Driver) is a high performance software solution for use with monochrome and color printers on the Windows operating system. Its modular design supports multiple operating systems, user interface languages, page description languages, and features for all Kyocera models. The device driver architecture is extensible to ensure that new features and document printing solutions developed will work with future generations of Kyocera products.

The Kyocera Mita Extended Driver uses an extensible modular architecture that allows new printing features accessing the same core technology to be expanded. Our world-wide development and support team continues to improve the technology and provide new features that add value to the printing system. With the Kyocera Mita Extended Driver, you can feel comfortable that the printing solutions you integrate into your office environment will continue to be supported as technology evolves.

Key Features

- “All-In-One” Driver Technology
- Common Graphical User Interface
- Multi-Language Support
- Accurate Raster GDI Printing
- Extended Print Job Features
- Advanced Color Support
- Extensible Architecture

DEVICE/DRIVER CAPABILITIES AND FUNCTIONALITY			
Function	Uni Driver PCL	Uni Driver PS (KPD L)	KX Driver
Paper Handling	X	X	X
Duplex	X	X	X
Scaling		X	X
Watermark			X
Stapling	X	X	X
Hole Punch	X	X	X
Booklet	X	X	X
Font Management	X	X	X
Publishing (Covers and Inserts)			X
Secure Print			X
Job Storage	X	X	X
Virtual Mailbox	X	X	X
Forms Overlay		X	X
Profiles			X

Uni Driver PS (KPD L) is limited to 10 Virtual Mailboxes

TEST OBSERVATIONS

Recommendations

Server and Network Environment

Free Hard Disk Space: Depending on the number of users, the size of the hard disk partition that contains the print spooler(s) must be large enough to support the demands of color printing and the system page file.

Print Devices

Device Memory: Users should be strongly encouraged to install extra memory in the devices. In the case of Color Devices, the spool size for typical color documents can easily exceed the standard memory installed in the devices.

Device Configuration: By increasing the device Total Host Buffer, a larger portion of the RAM/ HDD can be reserved for spooling the print data on the device. This can improve processing performance of the print job by the printer's CPU. Recommended values for the Total Host Buffer size can be found in the Kyocera Software Solutions Technical Bulletin # 1.