

Issued by Canon Europa N.V.

**Model:**

**Network Multi PDL Printer Unit-M3**

**Ref No.:**

GP-GEN-258  
(F5-T01-V11-10011-01)

**Date:**

28-01-05

**Subject:**

Introduction of Network Multi-PDL Printer Unit-M3

**1. Outline**

For Network Multi-PDL Printer Unit-M3, the differences from the Network Multi-PDL Printer Unit-M2 Ver.2.1 are described in this document.

**2. Compositions and Supported Functions**

Network Multi-PDL Printer Unit-M3 uses Network Multi-PDL Printer Unit-M2 Ver.2.1 as a base hardware and is the B&W printer controller which is connected to the iR8500 series. Network Multi-PDL Printer Unit-M3 uses Celeron 2.5GHz CPU. The memory capacity is increased to 256MB and the hard disk capacity is increased to 40GB. The specifications of Network Multi-PDL Printer Unit-M3 are shown below comparing with Network Multi-PDL Printer Unit-M2 Ver.2.1.

**2-1. Basic Info.**

<b>Product Name</b>	<b>Network Multi-PDL Printer Unit-M2 Ver.2.1</b>	<b>Network Multi-PDL Printer Unit-M3</b>
Support Model	iR7200/iR8500/iR105/iR5020/iR6020	iR8070/iR85+/iR9070/iR105+
B&W PPM (A4)	50-105	80-105
Motherboard	X5	X6
OS	Linux	Linux
Platform	Fiery	Fiery

## 2-2. Hardware

Product Name	Network Multi-PDL Printer Unit-M2 Ver.2.1	Network Multi-PDL Printer Unit-M3
CPU	Intel Mobile Pentium III 1.0 GHz	Intel Celeron 2.5 GHz
ASIC	VX2b	VX2b
Standard Memory	128MB	256MB
Hard Disk	IDE 20GB	IDE 40GB
Engine side I/F		
10 Base T	Supported	Supported
100 Base T	Supported	Supported
Network cable	Cross-type, 10FT cable as accessory	Cross-type, 10FT cable as accessory
PC side I/F		
10 Base 2	Not Supported	Not Supported
10 Base 5	Not Supported	Not Supported
10 Base T	Supported	Supported
100 Base T	Supported	Supported
1000 Base T	Not Supported	Supported
Token Ring	Supported (Option)	Not Supported
Local Talk	Not Supported	Not Supported
Parallel (In)	Supported (Option)	Supported (Option)
LCD Operational Panel	Supported (Controller)	Supported (Controller)
Compression Method	JBIG	JBIG

**2-3. Output**

<b>Product Name</b>	<b>Network Multi-PDL Printer Unit-M2 Ver.2.1</b>	<b>Network Multi-PDL Printer Unit-M3</b>
Compression On/Off	Always on	Always on
Toner Reduction	Supported	Supported
Image Smoothing	Supported	Supported
Custom Paper Size by Copier	Supported	Supported
Custom Size by Driver	Supported	Supported

**2-4. Network**

<b>Product Name</b>	<b>Network Multi-PDL Printer Unit-M2 Ver.2.1</b>	<b>Network Multi-PDL Printer Unit-M3</b>
NDPS Canon Gateway	Supported	Supported
TokenRing Option	IPX, TCP/IP	Not Supported
Apple Talk	Supported	Supported
Novell (SPX/IPX)	Supported	Supported
TCP/IP	Supported	Supported
SMB	Supported	Supported
DHCP	Supported	Supported
BOOTP	Supported	Supported
RARP	Not Supported	Not Supported
Point & Print (SMB)	Supported	Supported
MIB	Supported	Supported
Port9100	Supported	Supported
IPP	Supported (V1.1)	Supported (V1.1)
E-mail services (Scan to email, Email port printing, Email print)	Supported	Supported
Internet FAX	Supported	Supported
PrintMe / Push Printing	Supported	Not Supported
PrintMe / Pull Printing	Not Supported	Not Supported
Network Installer	Not Supported	Not Supported

<b>Product Name</b>	<b>Network Multi-PDL Printer Unit-M2 Ver.2.1</b>	<b>Network Multi-PDL Printer Unit-M3</b>
Rendezvous support	Not Supported	Not Supported
Remote Copy Through	Supported	Supported
SST via Network (N/S HDD format)	Supported	Supported
Auto Configurator Protocol 3 (for NetSpot)	Supported	Supported
Send through	Supported	Supported
Meap through (only unicast)	Supported (iR5020/iR6020 Only)	Supported
Meap through (plus multicast/broadcast)	Not Supported	Supported
SLP Support	Not Supported	Supported
SSL through	Not Supported	Supported
SNTP Support	Not Supported	Supported
Web Service	Not Supported	Supported

## 2-5. Platform OS

<b>Product Name</b>	<b>Network Multi-PDL Printer Unit-M2 Ver.2.1</b>	<b>Network Multi-PDL Printer Unit-M3</b>
Mac OS 9.1 or under	Supported	Supported
Mac OS X	Supported	Supported
Windows95	Not Supported	Not Supported
Windows 98/Me	Supported	Supported
Windows NT 4.0	Supported	Supported
Windows 2000	Supported	Supported
Windows XP	Supported	Supported
Windows Server 2003	Supported	Supported
Linux	Not Supported	Not Supported
UNIX (LPR Print)	Supported	Supported

## 2-6. PDL

Product Name	Network Multi-PDL Printer Unit-M2 Ver.2.1	Network Multi-PDL Printer Unit-M3
Postscript	PS 3 Co-Dev 3011	PS 3 Co-Dev 3016
PCL	PCL 5e/XL	PCL 5e/XL
Roman PS Font (Type 1)	126	126
Roman PS Font (True Type)	10	10
PCL Font	113 (80 PCL6 and others)	113 (80 PCL6 and others)
PCL Barcode Font	32	32
Font Substitution	Supported	Supported
PS Unidriver	EFI uni V1 (Windows 98/ME/NT/ 2K/XP/ Server2003)	EFI uni V2 (Windows 98/ME/NT/ 2K/XP/ Server2003)
PCL Driver	Canon CCD	Canon CCD
Option AutoConfig	Supported	Supported
UniDriver / Consumable Tab	Supported	Supported
UniDriver / Booklet Maker	Not Supported	Not Supported
UniDriver / Preview FreeForm Master	Supported	Supported
UniDriver / Email Notification	Not Supported	Supported
Mac PPD Categorized Options	Supported	Supported
PDL Reprint (PS Spool Data)	Supported	Supported
Fast Reprint (Ripped Data in memory)	Supported (Save fast reprint)	Supported (Save fast reprint)
Rip While Print	Supported	Supported
Continuous Print	Supported	Supported
Rip and Hold to Disk	Supported	Supported
Print Queue Action	Not Supported	Not Supported

**2-7. File format**

<b>Product Name</b>	<b>Network Multi-PDL Printer Unit-M2 Ver.2.1</b>	<b>Network Multi-PDL Printer Unit-M3</b>
Postscript	Supported	Supported
PDF1.2	Supported	Supported
PDF1.3	Supported	Supported
PDF1.4	Not Supported	Supported
PDF1.5	Not Supported	Supported
PCL	Supported	Supported
EPS/EPST	Supported	Supported
TIFF6.0	Supported	Supported

**2-8. EFI Utility**

<b>Product Name</b>	<b>Network Multi-PDL Printer Unit-M2 Ver.2.1</b>	<b>Network Multi-PDL Printer Unit-M3</b>
Fiery Downloader	Supported	Supported
Fiery Scan (Plug In)	Supported (PDF, TIFF)	Supported (PDF, TIFF)
Fiery Scan (Twain native)	Not Supported	Not Supported
Fiery Spooler	Not Supported	Not Supported
Command WorkStation (Incl. Spooler, Calibrator)	Supported (V4.0, Windows 98/NT4.0/ME/ 2000/XP/Server2003)	Supported (V4.2, Windows 98/NT4.0/ME/ 2000/XP/Server2003)
Command WorkStation LE 4 for Mac (Incl. Spooler, Calibrator)	Not Supported	Supported (only OSX)
Fiery Link	Not Supported	Not Supported
HotFolders	Not Supported	Supported (only windows) (option)
EFI Job Monitor (Mac/Win)	Not Supported / Not Supported	Not Supported / Supported

**2-9. Fiery Scan**

<b>Product Name</b>	<b>Network Multi-PDL Printer Unit-M2 Ver.2.1</b>	<b>Network Multi-PDL Printer Unit-M3</b>
Scan from LCD	Supported (Controller)	Supported (Controller)
Scan to FTP	Supported	Supported
Scan to HDD (Mailbox)	Supported	Supported
Scan to DocBuilder (Hold queue)	Supported	Supported
Scan to I Fax	Supported	Supported
Scan to E-mail	Supported	Supported
Web Scan	Supported	Supported
Novell (NDS) Native	Supported	Supported

**2-10. Web Tools**

<b>Product Name</b>	<b>Network Multi-PDL Printer Unit-M2 Ver.2.1</b>	<b>Network Multi-PDL Printer Unit-M3</b>
WebStatus	Supported	Supported
WebSpooler	Supported	Supported
WebLink	Supported	Supported
Installer	Not Supported	Not Supported
Joblog	Supported	Supported
Configure	Supported	Supported
WebSetup	Supported	Supported
WebScan	Supported	Supported
RUI Through	Supported	Supported
WebDownloader	Not Supported	Not Supported

## 2-11. Production Printing Features

Product Name	Network Multi-PDL Printer Unit-M2 Ver.2.1	Network Multi-PDL Printer Unit-M3
Mixed Media [PS only]	Supported (v1.2)	Supported (v1.3; new feature is not available, only UI is changed)
Chapterization	Supported	Supported
Subset Finishing	Supported (16: PS only)	Supported (PS:100, PCL:30)
Subset Printing	Supported (100)	Supported (100)
Tabs Printing	Supported	Supported
Tabs from Driver	Supported	Supported
Mixed 'plex' Mode	Supported	Supported
Trimmer Position	Supported	Supported
Velocity Split	Not Supported	Not Supported

## 2-12. Paper Handling

Product Name	Network Multi-PDL Printer Unit-M2 Ver.2.1	Network Multi-PDL Printer Unit-M3
Tray Selection	Supported	Supported
Duplex	Supported	Supported
IPDS	Not Supported	Supported (Roman option)
Image Shift for Duplex	Supported (PCL Only)	Supported
Landscape option for Duplex	Supported	Supported
Staple	Supported	Supported
Saddle Stitch	Supported	Supported
Image Rotation (180 degrees)	Supported	Supported
Electronic Collating	Supported	Supported
Reverse Order Print	Supported	Supported
Face Down Print	Supported	Supported
Slip Sheet	Supported	Supported
Member Printing	Department ID	Department ID
Secure Print	Supported	Supported



Product Name	Network Multi-PDL Printer Unit-M2 Ver.2.1	Network Multi-PDL Printer Unit-M3
Transparency Interleave	Supported	Supported
Check & Print	proof print	proof print
Booklet	Supported (PS driver needs application for Booklet)	Supported (PS driver cannot LGL Booklet)
Cover Page for Booklet	Supported	Supported
Oficio	Not Supported	Supported (PCL Driver standard, Oficio-support-PS-Driver is available as service release)

### 2-13. Data Management

Product Name	Network Multi-PDL Printer Unit-M2 Ver.2.1	Network Multi-PDL Printer Unit-M3
Copy Numbering	Supported	Supported
DocBuilder	Supported	Supported
ScanBuilder	Not Supported	Not Supported
DocBuilder Pro	Not Supported	Supported (Option)
Archiving	Supported	Supported
Load Balancing	Supported	Supported
FreeForm (Variable Print)	Supported	Supported
FreeForm+ (FreeForm 2)	Supported	Supported
Print Master Option	Supported	Supported
PowerForm	Not Supported	Not Supported
Optimize PowerPoint	Supported	Supported

**2-14. Security**

<b>Product Name</b>	<b>Network Multi-PDL Printer Unit-M2 Ver.2.1</b>	<b>Network Multi-PDL Printer Unit-M3</b>
IP Filtering	Supported	Supported
Port Filtering	Supported	Supported
MacAddress Filtering	Not Supported	Supported
Secure Erase (HDD data overwrite)	Not Supported	Supported
SNMP Security Problem Fix	Supported	Supported
Rewritable Community Name	Supported	Supported
Job Log Protect	Supported	Supported
Measures against Apache vulnerabilities	Supported	Supported

**2-15. Canon Utility**

<b>Product Name</b>	<b>Network Multi-PDL Printer Unit-M2 Ver.2.1</b>	<b>Network Multi-PDL Printer Unit-M3</b>
Canon LPR Utility	Supported	Supported
Canon Font Manager 2000	Supported	Supported
Barcode 32 screen fonts	Supported	Supported
Network ScanGear	Supported	Supported
Device Status Extension	Supported	Supported
Canon NDPS Gateway	Supported	Supported
NetSpot	Not Supported	Not Supported
NS-Suite / NetSpot Console	Supported	Supported
NS-Suite / NetSpot Device Installer	Supported	Supported
NS-Suite / NetSpot Job Monitor	Not Supported	Not Supported
NetSpot Resource Downloader	Supported	Supported
JBIG Viewer	Supported	Supported

### 3. Service Notes

#### 3-1. BIOS Protection

This product does not employ the BIOS protection feature. Neither does Network Multi-PDL Printer Unit-M2 Ver.2.1. Therefore, take the same work as Network Multi-PDL Printer Unit-M2 Ver.2.1 to replace the Motherboard or hard disk drive.

#### 3-2. Notes for Replacing the Motherboard

The Motherboard as the service part does not include the CPU, DIMM, and BIOS chip. Remove these parts from the old Motherboard and attach them to the new board when replacing.

#### 3-3. Shutting Down the OS

You have to shut down OS before turning off the power. Take the following steps to shut it down:

Press the menu button and select **Shut Down** and **Shut Down System**. The back light on the display turns off and the operating noise goes away. In this condition, the power is still on even though it seems turned off. Then, always turn the power switch off. To start up the system, turn on the power switch, in the same manner as Network Multi-PDL Printer Unit-M2 Ver.2.1.

#### 3-4. Service Parts

The same and difference points of the service parts of this product from the service parts of Network Multi-PDL Printer Unit-M2 Ver.2.1 are shown as follows.

- Motherboard -- FE1-5976-000, new
- CPU Kit -- FE1-5977-000, new
- HDD -- FE1-5512-000
- UIB -- FE1-5979-000, new
- DIMM 256MB -- FE1-5980-000, new
- Power Supply -- FE1-5981-000, new
- FAN Front -- FE1-6052-000, new
- Front Cover -- FE1-5983-000: Network Multi-PDL Printer Unit-M3, new
- CABLE CROSSOVER -- FE1-6053-000, new
- CABLE HDD -- FE1-5500-000
- CD-ROM -- FE1-5986-000, new
- Media Pack -- FE1-5990-000: UKE+FIGS, new
- System Software CD -- FE1-5992-000: ROMAN, new

#### 3-5. Service Work

Same as Network Multi-PDL Printer Unit- M2 Ver.2.1



When you reinstall the system, the screen which requires you to enter the password is displayed.

Enter the password, "Fiery.1".

When you reinstall the system in the field, a patch (1-GNUMQ) is not installed. In this case, please use a CD (1-GNUMQ) and install it after System Software is installed.

1-GNUMQ is a patch to display a correct message when no toner occurs.

When you connect a Ethernet crossover cable and a network cable to Network Multi-PDL Printer Unit-M3, please be careful about the positions of the network port on the back of the Network Multi-PDL Printer Unit-M3. Please refer to Installation Procedure or Installation and Service Guide.

#### 4. Version of Production Approval

##### 4-1. Software

System Software CD: GM(1.01)+Patch(1-GNUMQ)

User Software: GM(1.0)JP/US-Roman/EFIGS

Printer driver

PS Printer Driver Win 98/Me (Adobe): 4.53.0.7

PS Printer Driver Win NT4.0 (Adobe): 5.2.2.15

PS Printer Driver Win 2000/Xp (MSPScript)

PS Printer Driver Mac 9.2.2 (Adobe): 8.7.3

PCL5e/5c/6 Printer Driver: Ver6.60/4.60

PPD File (Windows/Macintosh): 11/30/04

Utilities/Latest version to be checked the operations

Check item	Ver.	Check item	Ver.
Command Workstation Win	4.2.0.47	SunJava	1.4.1_02
EFI Impose (Win)	2.5.0.10	HinstallerAll.exe	R201.25
Fiery DownLoader Win/Mac	3.2.054	Sjl41_02.exe	2.11.15.0
Fiery Mail Port (Win)	1.0.0.17	PCL5e/XL Driver	6.60/4.60
Fiery Remote Scan (Win)	5.2.2.7	Color Network ScanGear	2
Fiery Remote Scan (Mac)	5.0.5.2	Canon FontManager2000	2.02
Hot Folder (Win)	2.0.0.40	Canon LPR2	2.2
MRJ (Mac)	2.2.5	NDPS-Gateway	1.21
Web tools Setup (Mac)	1.200.68	NetSpot Console	4.1
Web tools Web Scan (Mac)	1.1.50	NetSpot Device Installer	3.1(r3106)
Command Workstation LE (MacOSX)	1.0.091	Device Status Extension	1.21
Fiery Remote Scan (MacOSX)	5.2.0.28	JBIG Viewer	1.3

**4-2. ROM for iR Engine**

iR engine version to be checked

(iR105+/iR9070)

Check item	Ver.
MN-Cont	2.03
Dcon	21.02
Rcon	10.01
BootROM	4.33C
Language	2.03
RUI	2.02
MEAP	1.45

(iR85+/iR8070)

Check item	Ver.
MN-Cont	2.03
Dcon	50.03
Rcon	10.01
BootROM	4.33C
Language	2.03
RUI	2.02
MEAP	1.45

**4-3. Accessories**

Check item	Ver.
SDL-STCH	4.05
FEEDER	7.01
SORTER	24.01

## **5. Un-removed Minor Bugs or Warikiri**

### **Description**

When the document is placed on both ADF and the platen glass, "Remove the original from the platen glass." is displayed in LCD of the device. When you copy, this warning message is displayed, so copying cannot be performed. However, when you scan, the scanning operations can be executed, but the paper jam occurs in the ADF.

### **Cause**

Even the paper exists on the platen glass, this information is not informed to the CPCA level. Therefore, both buttons (Online and Offline) for scanning are valid. That is, you can also select Online although the paper exists on the platen glass.