

Printer/Scanner
(Machine Code: B577)
SERVICE MANUAL
(Insert Version)

September, 2003
Subject to change

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3. SERVICE TABLES

3.1 PRINTER SERVICE MODE

Service Table Key

Notation:	What it means
[range / default / step]:	Example: [-9 ~ +9 / +3.0 / 0.1 mm step]. The setting can be adjusted in the range ± 9 , value reset to +3.0 after an NVRAM reset, and the value can be changed in 0.1 mm steps with each key press.
Italics:	Comments added for your reference.
*:	This value is stored in NVRAM. After a RAM reset, the default value (factory setting) is restored.
DFU :	Denotes "Design or Factory Use". Do not change this value.

Service
Tables

3.1.2 PRINTER SERVICE MODE TABLES

1001	BitSw#1 Set	
	Adjusts bit switch settings. Note: Currently the bit switches are not being used.	
1003	Clear Setting	
1	Initialized Printer System	
2	Delete Program	DFU
1004	Print Summary	
	Prints the service summary sheet (An error log is printed in addition to the configuration page).	
1005	Display Version	
	Displays the version of the controller firmware.	
1006	Sample/Locked Print	Not Available

3.1.3 SP MODES RELATED TO THE PRINTER CONTROLLER

The following SP modes are located in the copier SP mode. Refer to section 5.1 of the main unit service manual.

5104	A3/DLT Double Count
	Specifies whether the counter is doubled for A3/DLT. 0: No, 1: Yes If ① is selected, the total counter and the current user code counter count up twice when A3 or DLT paper is used.
5801	Memory All Clear
	Resets data for process control and all software counters, and returns all modes and adjustments to their defaults values. ☛ Section 5.1.8 of the main unit manual for details.
5907	Plug & Play
	Selects the brand name and the production name for Windows Plug & Play. This information is stored in NVRAM.
7832	Detailed Display of Self-Diagnostics
	Displays the controller self-diagnostic result. ☛ Section 3.6 of this manual for details.

3.2 SCANNER SERVICE MODE

3.2.1 SCANNER PROGRAM MODE TABLE

1004*	Compression Type	Selects the compression type for binary picture processing. [1: MH , 2: MR, 3: MMR]
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1005*	Erase Margin	Creates an erase margin for all edges of the scanned image. <i>If the machine has scanned the edge of the original, create a margin.</i> [0 – 5 / 0mm / 1mm step]
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1007	Store Priority	1: Send 2: Store Only 3: Send & Store
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2002	Text (Print) Mode Settings	
1*	MTF Filter Coefficient (Main scan)	Selects the MTF filter coefficient in the main scan direction for Text mode. <i>Select a higher number for a stronger filter.</i> <i>If this is "0", the MTF filter is not applied.</i> [0-13 / 8 / 1 step]
2*	MTF Filter Coefficient (Sub scan)	As above, for sub scan [0-13 / 7 / 1 step]
3*	MTF Filter Strength (Main scan)	Selects the MTF filter strength in the main scan direction for Text mode. <i>Select a higher number for a stronger filter.</i> [0-7 / 4 / 1 step]
4*	MTF Filter Strength (Sub scan)	As above, for sub scan [0-7 / 4 / 1 step]
5*	Independent Dot Erase	Selects the independent dot erase level. <i>With a larger SP setting, more dots are detected as independent dots and erased.</i> <i>If this is "0", independent dot erase is disabled.</i> [0-7 / 0 / 1 step]
6*	Unevenness correction	Selects whether the unevenness correction is done. <i>This function is like an FCI function. If this is "1", the edges of characters in scanned images will be smoothed.</i> [0: OFF , 1: ON]
7*	Smoothing Filter	Selects the smoothing pattern for Text mode when using binary picture processing mode. <i>A larger value could cause moiré to appear in the image.</i> [0-7 / 0 / 1 step]
8*	Scanner Gamma	Selects the scanner gamma type for Text mode when using binary picture processing mode. [0-11 / 4 / 1 step]

2002	Text (Print) Mode Settings	
11*	Brightness – Notch 7	Adjusts the image density for each image density level for Text mode when using binary picture processing mode. [0-255 / 128 / 1 step]
12*	Contrast – Notch 7	[0-255 / 128 / 1 step]
13*	Threshold Level – Notch 7	[0-255 / 128 / 1 step]
14*	Brightness – Notch 6	[0-255 / 128 / 1 step]
15*	Contrast – Notch 6	[0-255 / 128 / 1 step]
16*	Threshold Level – Notch 6	[0-255 / 128 / 1 step]
17*	Brightness – Notch 5	[0-255 / 128 / 1 step]
18*	Contrast – Notch 5	[0-255 / 128 / 1 step]
19*	Threshold Level – Notch 5	[0-255 / 128 / 1 step]
20*	Brightness – Notch 4	[0-255 / 128 / 1 step]
21*	Contrast – Notch 4	[0-255 / 128 / 1 step]
22*	Threshold Level – Notch 4	[0-255 / 128 / 1 step]
23*	Brightness – Notch 3	[0-255 / 128 / 1 step]
24*	Contrast – Notch 3	Adjusts the image density for each image density level for Text mode when using binary picture processing mode. [0-255 / 128 / 1 step]
25*	Threshold Level – Notch 3	[0-255 / 128 / 1 step]
26*	Brightness – Notch 2	[0-255 / 128 / 1 step]
27*	Contrast – Notch 2	[0-255 / 128 / 1 step]
28*	Threshold Level – Notch 2	[0-255 / 128 / 1 step]
29*	Brightness – Notch 1	[0-255 / 128 / 1 step]
30*	Contrast – Notch 1	[0-255 / 128 / 1 step]
31*	Threshold Level – Notch 1	[0-255 / 128 / 1 step]

2003	Text (OCR) Mode Settings	
1*	MTF Filter Coefficient (Main scan)	Selects the MTF filter coefficient in the main scan direction for Text (OCR) mode. <i>Select a higher number for a stronger filter.</i> <i>If this is "0", the MTF filter is not applied.</i> [0-13 / 5 / 1 step]
2*	MTF Filter Coefficient (Sub scan)	As above, for sub scan [0-13 / 5 / 1 step]
3*	MTF Filter Strength (Main scan)	Selects the MTF filter strength in the main scan direction for Text (OCR) mode. <i>Select a higher number for a stronger filter.</i> [0-7 / 5 / 1 step]
4*	MTF Filter Strength (Sub scan)	As above, for sub scan [0-7 / 5 / 1 step]
5*	Independent Dot Erase	Selects the independent dot erase level. <i>With a larger SP setting, more dots are detected as independent dots and erased.</i> <i>If this is "0", independent dot erase is disabled.</i> [0-7 / 0 / 1 step]

2003	Text (OCR) Mode Settings	
6*	Unevenness correction	Selects whether the unevenness correction is done. <i>This function is like an FCI function. If this is "1", the edges of characters in scanned images will be smoothed.</i> [0: OFF, 1: ON]
7*	Smoothing Filter	Selects the smoothing pattern for Text (OCR) mode when using binary picture processing mode. <i>A larger value could cause moiré to appear in the image.</i> [0-7 / 0 / 1 step]
8*	Scanner Gamma	Selects the scanner gamma type for Text (OCR) mode when using binary picture processing mode. [0-11 / 5 / 1 step]
11*	Brightness – Notch 7	Adjusts the image density for each image density level for Text (OCR) mode when using binary picture processing mode. [0-255 / 128 / 1 step]
12*	Contrast – Notch 7	[0-255 / 128 / 1 step]
13*	Threshold Level – Notch 7	[0-255 / 208 / 1 step]
14*	Brightness – Notch 6	[0-255 / 128 / 1 step]
15*	Contrast – Notch 6	[0-255 / 128 / 1 step]
16*	Threshold Level – Notch 6	[0-255 / 188 / 1 step]
17*	Brightness – Notch 5	[0-255 / 128 / 1 step]
18*	Contrast – Notch 5	[0-255 / 128 / 1 step]
19*	Threshold Level – Notch 5	[0-255 / 158 / 1 step]
20*	Brightness – Notch 4	[0-255 / 128 / 1 step]
21*	Contrast – Notch 4	[0-255 / 128 / 1 step]
22*	Threshold Level – Notch 4	[0-255 / 128 / 1 step]
23*	Brightness – Notch 3	[0-255 / 128 / 1 step]
24*	Contrast – Notch 3	Adjusts the image density for each image density level for Text (OCR) mode when using binary picture processing mode. [0-255 / 128 / 1 step]
25*	Threshold Level – Notch 3	[0-255 / 108 / 1 step]
26*	Brightness – Notch 2	[0-255 / 128 / 1 step]
27*	Contrast – Notch 2	[0-255 / 10 / 1 step]
28*	Threshold Level – Notch 2	[0-255 / 88 / 1 step]
29*	Brightness – Notch 1	[0-255 / 128 / 1 step]
30*	Contrast – Notch 1	[0-255 / 128 / 1 step]
31*	Threshold Level – Notch 1	[0-255 / 68 / 1 step]

2004	Text/Photo Mode Settings	
1*	MTF Filter Coefficient (Main Scan)	Selects the MTF filter coefficient in the main scan direction for Text/Photo mode. <i>Select a higher number for a stronger filter.</i> <i>If this is "0", the MTF filter is not applied.</i> [0-13 / 3 / 1 step]
2*	MTF Filter Coefficient (Sub Scan)	As above, for sub scan [0-13 / 1 / 1 step]
3*	MTF Filter Strength (Main Scan)	Selects the MTF filter strength in the main scan direction for Text/Photo mode. <i>Select a higher number for a stronger filter.</i> [0-7 / 4 / 1 step]
4*	MTF Filter Strength (Sub Scan)	As above, for sub scan [0-7 / 4 / 1 step]
7*	Smoothing Filter	Selects the smoothing pattern for Text/Photo mode when using binary picture processing mode. <i>A larger value could cause moiré to appear in the image.</i> [0-7 / 0 / 1 step]
8*	Scanner Gamma	Selects the scanner gamma type for Text/Photo mode when using binary picture processing mode. [0-11 / 6 / 1 step]
11*	Brightness – Notch 7	Adjusts the image density for each image density level for Text/Photo mode when using binary picture processing mode. [0-255 / 128 / 1 step]
12*	Contrast – Notch 7	[0-255 / 128 / 1 step]
13*	Threshold Level – Notch 7	[0-255 / 128 / 1 step]
14*	Brightness – Notch 6	[0-255 / 128 / 1 step]
15*	Contrast – Notch 6	[0-255 / 128 / 1 step]
16*	Threshold Level – Notch 6	[0-255 / 128 / 1 step]
17*	Brightness – Notch 5	[0-255 / 128 / 1 step]
18*	Contrast – Notch 5	[0-255 / 128 / 1 step]
19*	Threshold Level – Notch 5	[0-255 / 128 / 1 step]
20*	Brightness – Notch 4	[0-255 / 128 / 1 step]
21*	Contrast – Notch 4	[0-255 / 128 / 1 step]
22*	Threshold Level – Notch 4	[0-255 / 128 / 1 step]
23*	Brightness – Notch 3	[0-255 / 128 / 1 step]
24*	Contrast – Notch 3	[0-255 / 128 / 1 step]
25*	Threshold Level – Notch 3	[0-255 / 128 / 1 step]
26*	Brightness – Notch 2	[0-255 / 128 / 1 step]
27*	Contrast – Notch 2	[0-255 / 128 / 1 step]
28*	Threshold Level – Notch 2	[0-255 / 128 / 1 step]
29*	Brightness – Notch 1	[0-255 / 128 / 1 step]
30*	Contrast – Notch 1	[0-255 / 128 / 1 step]
31*	Threshold Level – Notch 1	[0-255 / 128 / 1 step]

2005	Photo Mode Settings	
1*	MTF Filter Coefficient (Main Scan)	Selects the MTF filter coefficient in the main scan direction for Photo mode. <i>Select a higher number for a stronger filter.</i> <i>If this is "0", the MTF filter is not applied.</i> [0-13 / 0 / 1 step]
2*	MTF Filter Coefficient (Sub Scan)	As above, for sub scan [0-13 / 0 / 1 step]
3*	MTF Filter Strength (Main Scan)	Selects the MTF filter strength in the main scan direction for Photo mode. <i>Select a higher number for a stronger filter.</i> [0-7 / 0 / 1 step]
4*	MTF Filter Strength (Sub Scan)	As above, for sub scan [0-7 / 0 / 1 step]
7*	Smoothing Filter	Selects the smoothing pattern for Photo mode when using binary picture processing mode. <i>A larger value could cause moiré to appear in the image.</i> [0-7 / 6 / 1 step]
8*	Scanner Gamma	Selects the scanner gamma type for Photo mode when using binary picture processing mode. [0-11 / 7 / 1 step]
9*	Dither Matrix Filter	Selects the dither matrix type for Photo mode when using binary picture processing mode. [1-11 / 11 / 1 step]
11*	Brightness – Notch 7	Adjusts the image density for each image density level for Photo mode when using binary picture processing mode. [0-255 / 128 / 1 step]
12*	Contrast – Notch 7	[0-255 / 128 / 1 step]
13*	Threshold Level – Notch 7	[0-255 / 128 / 1 step]
14*	Brightness – Notch 6	[0-255 / 128 / 1 step]
15*	Contrast – Notch 6	[0-255 / 128 / 1 step]
16*	Threshold Level – Notch 6	[0-255 / 128 / 1 step]
17*	Brightness – Notch 5	[0-255 / 128 / 1 step]
18*	Contrast – Notch 5	[0-255 / 128 / 1 step]
19*	Threshold Level – Notch 5	Not available. [0-255 / 128 / 1 step]
20*	Brightness – Notch 4	[0-255 / 128 / 1 step]
21*	Contrast – Notch 4	Adjusts the image density for each image density level for Photo mode when using binary picture processing mode. [0-255 / 128 / 1 step]
22*	Threshold Level – Notch 4	[0-255 / 128 / 1 step]
23*	Brightness – Notch 3	[0-255 / 128 / 1 step]
24*	Contrast – Notch 3	[0-255 / 128 / 1 step]
25*	Threshold Level – Notch 3	[0-255 / 128 / 1 step]

2005	Photo Mode Settings	
26*	Brightness – Notch 2	[0-255 / 128 / 1 step]
27*	Contrast – Notch 2	[0-255 / 128 / 1 step]
28*	Threshold Level – Notch 2	[0-255 / 128 / 1 step]
29*	Brightness – Notch 1	[0-255 / 128 / 1 step]
30*	Contrast – Notch 1	[0-255 / 128 / 1 step]
31*	Threshold Level – Notch 1	[0-255 / 128 / 1 step]

2006	Grayscale Mode Settings	
1*	MTF Filter Coefficient	Selects the MTF filter coefficient in the main scan direction when using grayscale processing mode. <i>Select a higher number for a stronger filter.</i> <i>If this is "0", the MTF filter is not applied</i> [0-15 / 0 / 1 step]
2*	MTF Filter Coefficient	As above, for sub scan [0-13 / 0 / 1 step]
3*	MTF Filter Strength (Main Scan)	Selects the MTF filter strength in the main scan direction when using grayscale processing mode. <i>Select a higher number for a stronger filter.</i> [0-7 / 0 / 1 step]
4*	MTF Filter Strength (Sub scan)	As above, for sub scan [0-7 / 0 / 1 step]
7*	Smoothing Filter	Selects the smoothing pattern when using grayscale processing mode. <i>A larger value could cause moiré to appear in the image.</i> [0-7 / 0 / 1 step]
8*	Scanner Gamma	Selects the scanner gamma type when using grayscale processing mode. [0-6 / 11 / 1 step]
11*	Brightness – Notch 7	Adjusts the image density for each image density level when using the grayscale processing mode. [0-255 / 128 / 1 step]
12*	Contrast – Notch 7	[0-255 / 128 / 1 step]
13*	Threshold Level – Notch 7	Not available. [0-255 / 98 / 1 step]
14*	Brightness – Notch 6	[0-255 / 128 / 1 step]
15*	Contrast – Notch 6	[0-255 / 128 / 1 step]
16*	Threshold Level – Notch 6	Not available. [0-255 / 128 / 1 step]
17*	Brightness – Notch 5	[0-255 / 128 / 1 step]
18*	Contrast – Notch 5	[0-255 / 118 / 1 step]
19*	Threshold Level – Notch 5	Not available. [0-255 / 128 / 1 step]
20*	Brightness – Notch 4	[0-255 / 128 / 1 step]
21*	Contrast – Notch 4	[0-255 / 128 / 1 step]
22*	Threshold Level – Notch 4	Not available. [0-255 / 128 / 1 step]

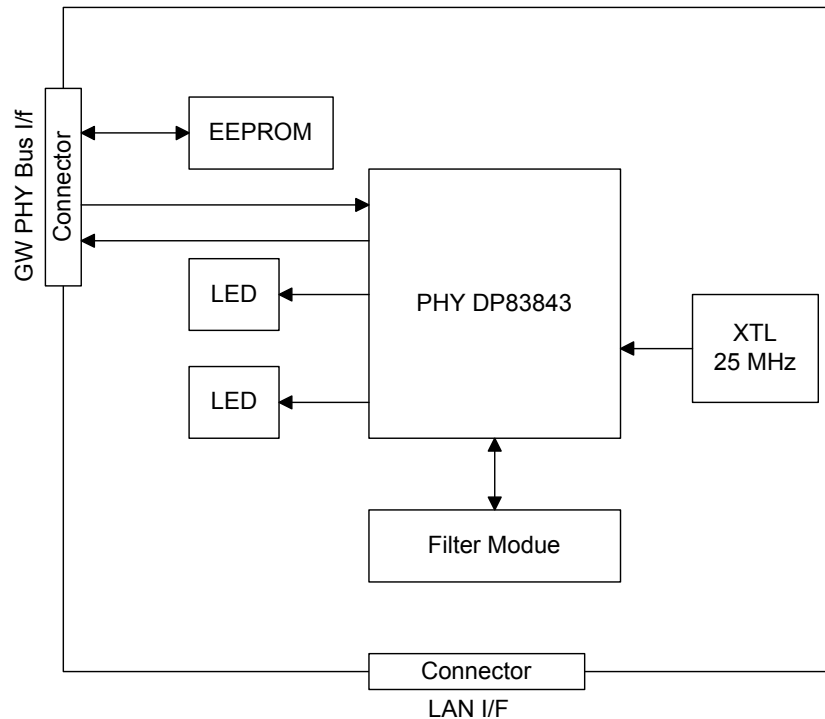
2006	Grayscale Mode Settings	
23*	Brightness – Notch 3	[0-255 / 128 / 1 step]
24*	Contrast – Notch 3	[0-255 / 128 / 1 step]
25*	Threshold Level – Notch 3	Not available. [0-255 / 128 / 1 step]
26*	Brightness – Notch 2	[0-255 / 128 / 1 step]
27*	Contrast – Notch 2	[0-255 / 128 / 1 step]
28*	Threshold Level – Notch 2	Not available. [0-255 / 128 / 1 step]
29*	Brightness – Notch 1	[0-255 / 128 / 1 step]
30*	Contrast – Notch 1	[0-255 / 128 / 1 step]
31*	Threshold Level – Notch 1	Not available. [0-255 / 128 / 1 step]

2021	Compression Ratio	
1*	Normal image	Selects the compression ratio for grayscale processing mode. <i>For a lower compression rate, input a smaller value.</i> [5-95 / 50 / 1 step]
2*	High Quality image	[5-95 / 60 / 1 step]
3*	Low Quality image	[5-95 / 40 / 1 step]

4. DETAILS

4.1 ETHERNET BOARD

4.1.1 ETHERNET BOARD LAYOUT



B577D002.WMF

 Detailed
Descriptions

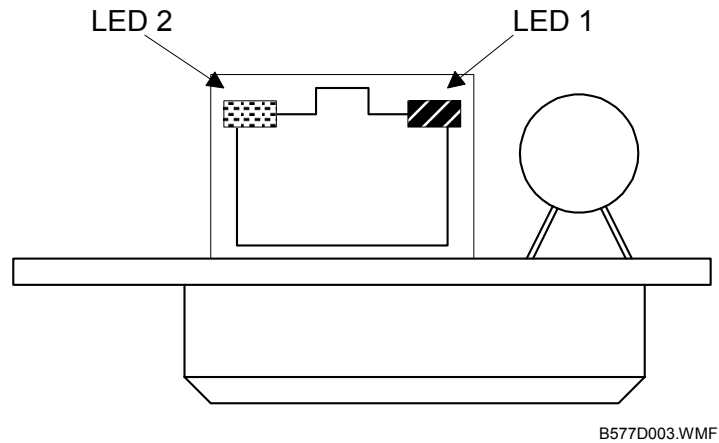
The Ethernet board is provided as a standard feature of this machine.

Function Blocks	Description
PHY (Physical Layer Device)	Completely standardized physical layer device for the functions of each device in the network.
EEPROM	Stores the MAC address.

The physical layer device, the lowest layer of the OSI reference model, refers to the physical components of the network: cables, connectors, and so on. OSI, the *Operating Standard Interface*, is a framework upon which networking standards are arranged. It is commonly diagramed as a layered cake.

4.1.2 ETHERNET BOARD OPERATION

The NIB is a standard IEEE802.3u type which implements 10/100Mbps auto negotiation. System initialization sets the network for 10Mbps/100Mbps.



LED 1 (Green)	Indicates the link status: ON Link Safe OFF Link Fail
LED 2 (Orange)	Indicates the operation mode: ON 100 Mbps mode OFF 10 Mbps mode

4.2 FILE FORMAT CONVERTER (MLB)

In previous models (such as A-C2, R-C2), DeskTopBinder V2 could retrieve copy and print jobs from the document server and convert them to TIFF. However, this software-based conversion was slow for many users.

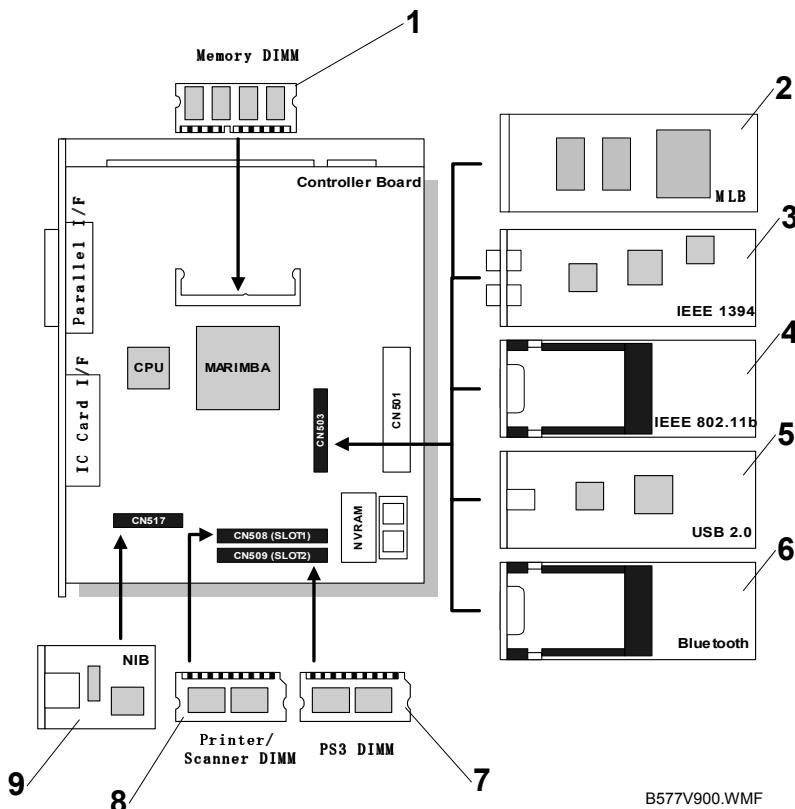
So, for this machine, this conversion has been made hardware-based, using the optional File Format Converter. Without the File Format Converter, copy and print jobs cannot be downloaded to a PC (or e-Cabinet) from the document server.

Two common target formats are provided for conversion to files that can be selected by the SP modes: JPEG, and TIFF.

In scanner mode, users can select file format from TIFF, JPEG, or PDF. The time to create TIFF and JPEG files will be shortened with the File Format Converter, especially for high scanning resolution and large image size. When the customer selects PDF, the machine creates a TIFF or JPEG file from the scanned image first then converts it to PDF. So, the total time to create a PDF is also shortened with the File Format Converter.

SPECIFICATIONS

1. SYSTEM COMPONENTS



No.	Item	Code	Remarks
1	Memory 128 MB	G331	Common with B079
2	File Format Converter (MLB)	B519	Common with B135
3	IEEE 1394 (FireWire)	G336	Common with B079
4	IEEE 802.11b (Wireless LAN)	B515	Common with B079
5	USB 2.0	B525-01	Common with B079
6	Bluetooth	G354	Common with B079
7	PostScript 3	G354-05	---
8	Printer/Scanner Module (ROM DIMM)	B577	Provided with HDD and NIB
9	NIB (Network Interface Board)	B525-17	Common with B079

2. LED INDICATORS

LED	Description	On	Off
LED 1 (Green)	Link Status	Link success	Link failure
LED 2 (Orange)	Power distribution	Power on	Power off

SPEC.

3. PRINTER SPECIFICATIONS

Printing Speed:	Maximum 22 ppm (A4/LT LEF): B089 model Maximum 27 ppm (A4/LT LEF): B093 model Maximum 32 ppm (A4/LT LEF): B097 model
Printer Languages:	PCL6/PCL5e PostScript 3 (option) RPCS (Refined Printing Command Stream) - an original Ricoh PDL
Resolution (Driver):	1200 dpi (RPCS) 600 dpi (PCL 6/PCL5e/PS3/RPCS) 300 dpi (PCL5e/RPCS) 200 dpi (RPCS)
Resident Fonts:	PCL: 35 Intellifonts 10 True Type fonts PS3: 136 fonts (24 Type 2 fonts, 112 Type 14 fonts)
Host Interfaces:	Bi-directional IEEE1284 parallel x 1 (Standard) Ethernet (100 Base-TX/10 Base-T) (Option) IEEE1394 with SCSI Print and IP Over 1394 (Option) IEEE 802.11b Wireless LAN (Option) Bluetooth (Option) USB 2.0 (Option)
Network Protocols:	TCP/IP, IPX/SPX, NetBEUI, AppleTalk, SMB, IPP
Memory:	Maximum 192 MB (Standard 64 MB + 128 MB optional DIMM)

4. USB SPECIFICATIONS

USB connectivity is provided as an option for this machine.

Interface	USB 1.1, USB 2.0
Data rates	480 Mbps (high speed), 12 Mbps (full speed), 1.5 Mbps (low speed)
	High speed mode is only supported by USB 2.0.

5. IEEE 802.11B SPECIFICATIONS

Standard applied	IEEE802.11b	
Data transmission rates	Speed	Distance
	11 Mbps	140 m (153 yd.)
	5.5 Mbps	200 m (219 yd.)
	2 Mbps	270 m (295 yd.)
	1 Mbps	400 m (437 yd.)
Network protocols	TCP/IP, Apple Talk, NetBEUI, IPX/SPX, SMB	
Bandwidth	2.4GHz (divided over 14 channels, 2400 to 2497 MHz for each channel)	

6. IEEE 1394 SPECIFICATIONS

Interface	IEEE 1394 (firewire)	
Number of Ports	2 ports	
Data Transmission Speed	400 Mbps, 200 Mbps, 100 Mbps	
Available Features, Functions, Protocols	SCSI print	IP over 1384
	Print	Print, Scan
	SBP-2	TCP/IP

7. BLUETOOTH SPECIFICATIONS

Transmission Specifications	Based on Bluetooth V1.1	
Data Transfer Speed	1 Mbps	
Profile	Hard Copy Cable Replacement Profile (HCRP), Serial Port Profile (SPP), BIP	
Distance Between Devices	10 m (The maximum distance when using outdoors, otherwise depends on the office environment.)	

8. SCANNER SPECIFICATIONS

Standard Scanner Resolution:	Main scan/Sub scan 600 dpi	
Available scanning Resolution Range:	100 ~ 1200 dpi;	When used as a Network TWAIN scanner.
	100, 200, 300, 400, 600 dpi;	When used as a network delivery scanner or for sending e-mail
Grayscales:	8 bits/pixel	
Scanning Speed Throughput:	0.8 sec./sheet (A4 LEF, 200 dpi without binary compression)	
	49 spm (A4 LEF, 200 dpi binary, MH)	
Interface:	Ethernet (100 Base-TX/10 Base-T for TCP/IP) IEEE 1394/IP Over IEEE 802.11b Wireless LAN	
Compression Method:	MH, MR, MMR (Binary Picture Processing) JPEG (Grayscale Processing)	
Video Memory Capacity:	192 MB	
Image Storage Capacity:	Number of originals per file: Maximum 2,000 pages	
	Maximum of files: 3000 files	

9. SOFTWARE ACCESSORIES

9.1 PRINTER

The printer drivers and utility software are provided on one CD-ROM. An auto-run installer allows you to select which components to install.

Printer Drivers

Printer Language	Windows 95/98/Me	Windows NT4.0	Windows 2000, XP, Server 2003	Macintosh
PCL 6	Yes	Yes	Yes	No
PCL 5e	Yes	Yes	Yes	No
PS3	Yes	Yes	Yes	Yes
RPCS	Yes	Yes	Yes	No

- NOTE:** 1) The printer drivers for Windows NT 4.0 are only for the Intel x86 platform. There is no Windows NT 4.0 printer driver for the PowerPC, Alpha, or MIPS platforms.
- 2) The PS3 drivers are all genuine AdobePS drivers, except for Windows 2000/XP/Server 2003, which uses Microsoft PS. A PPD file for each operating system is provided with the driver.

Utility Software

Software	Description
Agfa Monotype Font Manager 2000 (Win 95/98/Me, NT4, 2000)	A font management utility with screen fonts for the printer.
SmartNetMonitor for Admin (Win 95/98/Me, NT4, 2000/XP/Server 2003)	A printer management utility for network administrators. NIB setup utilities are also available.
SmartNetMonitor for Client (Win 95/98/Me, NT4, 2000/XP/Server 2003)	A printer management utility for client users. Peer-to-peer printing utility and parallel/recovery printing functions are included.
1394 Utility (Win 2000/XP)	A utility for removal IEEE 1394 printers.
LAN-Fax M3 Driver (Win 95/98/Me, NT4, 2000/XP)	This driver allows use of the LAN-Fax functions by installing the LAN-Fax driver, Address Book, and LAN-Fax Cover Sheet Editor.
Printer Utility for Mac	This software provides several convenient functions for printing from Macintosh clients.
USB Printing Support	A utility for the USB 2.0 board. A computer running Windows 98 SE or Windows ME requires installation of this utility.
Acrobat Reader	A utility that allows reading PDF files.

9.2 SCANNER

The scanner driver and utility software are provided on one CD-ROM.

Scanner Driver

- Network Twain Driver for Win95/98/Me/NT3.51/NT4.0/2000/XP

Scanner Utilities

- Scan Router V2 Lite for Win95/98/Me/NT4.0/2000/XP
- Desk Top Binder V2 Lite for Win95/98/Me/NT4.0/2000/XP/Server 2003