2. Product Specifications

2.1 Product Overview

Up to 28ppm (Ltr. 30ppm)	**ML-3051ND**	USB 2.0, IEEE1284
PCL6, PS3, 1200x1200dpi		8K Toner (4K Standard)
400 MHz, 16~64MB Standard		Built in Duplex (ML-3051ND)
- 10/100 Base TX - Opt. 802.11b/g Wireless N/W		- 250 sheet Cassette - 50 sheet MP - 250 sheet Opt. SCF

2.2 Specifications

• Product Specifications are subject to change without notice. See below for product specifications.

2.2.1 General Print Engine

ML-3050 SERIES		ML-3050	ML-3051N	ML-3051ND
Engine Speed	Simplex	Up to 28 ppm in A4 (30 ppm in Letter)		
	Duplex	N/A		Up to 19 ipm in A4 (21 ipm in Letter)
Warmup time	From Sleep	Less than 20 sec, Cold warm-Up time : 35ec		
FPOT	From Ready	Less than 8.5 sec		
	From Idle	Less than 28.5 sec		
	From Coldboot	Less than 43.5 sec		
Resolution	-	Up to 1,200 x 1,200 dpi effective output		

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2.2.2 Controller & S/W

ML-3050 SERIES		ML-3050	ML-3051N	ML-3051ND
Processor		Samsung 400 MHz		
Memory	Std.	16 MB	64 MB	
	Max.	272 MB	320 MB	
Printer Languages	-	PCL6, SPL, IBM ProPrinter, EPSON	PostScript3, PCL6, SPL, IBM ProPrinter, EPSON	
Fonts	-	45 scalable, 1 bitmap	45 scalable, 1 bitmap, 136 PostScript3 fonts	
Driver	Default Driver	SPL		
	Supporting OS	Windows 95/98/Me/NT 4.0/2000/XP/2003		
		Various Linux OS including Red Hat, Caldera, Debian, Mandrake, Slackware, SuSE and Turbo Linux		
		Mac OS 10.3	Mac OS 8.6~9.2/10.1~10.3	
	WHQL	Windows XP/2000/2003		
	Compatibility	PCL6: Win95/98/NT4.0/ 2000/Me/XP/2003 SPL: Linux, Mac PS3: N/A (Factory Option) KS/KSSM: DOS	PCL6: Win95/98/NT4.0/2000/Me/XP/2003 PS3: Win9x/NT4.0/2000/Me/XP/2003 PPD, Mac PPD, Linux PPD KS/KSSM: DOS	
Wired Network	Protocol	External : SPX/IPX, TCP/IP, SNMP, HTTP 1.1		
	Supporting OS	External : Microsoft Windows 98/ME/2000/ XP/2003Microsoft Windows NT 4.xMac OS 10.3Various Linux OS including Red Hat, Caldera, Debian, Mandrake, Slackware, SuSE and Turbo LinuxNovell 4.x,5.x,6.x	Microsoft Windows 98/ME/2000/XP/2003 Microsoft Windows NT 4.xMac OS 8.6 and aboverVarious Linux OS including Red Hat, Caldera, Debian, Mandrake, Slackware, SuSE and Turbo LinuxNovell 4.x,5.x,6.x	
Wireless Network	Protocol	External : SPX/IPX, TCP/IP, SNMP, HTTP 1.1		
	Supporting OS	External : Microsoft Windows 98/ME/2000/ XP/2003Microsoft Windows NT 4.xMac OS 10.3Various Linux OS including Red Hat, Caldera, Debian, Mandrake, Slackware, SuSE and Turbo LinuxNovell 4.x,5.x,6.x	Microsoft Windows 98/ME/2000/XP/2003 Microsoft Windows NT 4.xMac OS 8.6 and aboverVarious Linux OS including Red Hat, Caldera, Debian, Mandrake, Slackware, SuSE and Turbo LinuxNovell 4.x,5.x,6.x	
Application	RCP	N/A		
	Status Monitor	N/A		
	Smart Panel	YES (RCP,SM)		
	Network Management	External : SAS (Samsung Admin Service), SetIP	SAS (Samsung Admin Service), SetIP	

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ML-3050 SERIES		ML-3050	ML-3051N	ML-3051ND
Interface				
Parallel	-	IEEE 1284		
USB	-	USB 2.0		
Wired Network	-	Optional (External)	Ethernet 10/100 Base TX (Internal)	
Wireless Network	-	Optional (External)	Optional (Internal)	Optional (Internal) 802.11b/g Wireless LAN (Internal)
User Interface				
LCD	-	N/A	2 x 16 Character without backlit	
LED	-	3 LED (Status, Toner Save, N-Up)		
Key	-	3 Key: Stop, Toner Save, N-Up	8 Key: Stop, Toner Save, N-Up <, OK, >, Menu, Back	

2.2.3 Paper Handling

ML-3050 SERIES		ML-3050	ML-3051N	ML-3051ND
Standard Capacity	-	250-sheet Cassette Tray, 50-sheet Multi Purpose Tray @ 75g/㎡		
Max. Capacity	-	550 sheets @ 75g/㎡		
Printing	Max. Size	216 x 356 mm (8.5" x 14")		
	Min. Size	76 x 127 mm (3.0" x 5.0")		
Multi-purpose tray				
Capacity	-	50 sheets @ 75g/㎡		
Media sizes	-	A4, A5, A6, Letter, Legal, Folio, Oficio, Executive,ISO B5, JIS B5, 3"x5",Monarch, No.10, DL, C5, C6		
Media type	-	Plain Paper, Transparency, Envelope, Labels, Post Card, Card stock		
Media weight	-	16~43lb (60 to 163g/㎡)		
Sensing	-	Paper empty sensor		
Standard Cassette Tray				
Capacity	-	250 sheets @ 75g/㎡		
Media sizes	-	A4, A5, Letter, Legal, Executive, Folio, Oficio, ISO B5, JIS B5		
Media types	-	Plain paper		
Media weight	-	16~24lb (60 to90g/㎡)		
Sensing	-	Paper empty sensor		
Optional Cassette Tray				
Capacity	-	250 sheets @ 75g/㎡		
Media sizes	-	A4, A5, Letter, Legal, Executive, Folio, Oficio, ISO B5, JIS B5		
Media types	-	Plain paper		
Media weight	-	16~24lb (60 to90g/㎡)		
Sensing	-	Paper empty sensor		
Output Stacking				
Capacity	Face-Down	150 sheets @ 75g/㎡		
	Face-Up	1 sheet @ 75g/㎡		
Output Full sensing	-	N/A		
Duplex				
Supporting	-	N/A		Built-in
Media sizes	-	N/A		A4, Letter, Legal, Folio, Oficio
Media types	-	N/A		Plain Paper
Media weight	-	N/A		20~24lb (75 to 90g/㎡)

2.2.4 Consumables

ML-3050 SERIES		ML-3050	ML-3051N	ML-3051ND
Toner	Black	4,000 pages @ ISO 19752 standard Coverage(Standard 4,000 pages, High Yield 8,000 pages)		
	Key	Electronic key(CRUM) Only		
	Life detect	Toner gauge sensor by dot count		
Drum	Yield	12,000 sheets		

2.2.5 Reliability & Service

ML-3050 SERIES		ML-3050	ML-3051N	ML-3051ND
Printing Volume (SET AMPV)	-	9,200 sheets / year 767 sheets / month 38 sheets / day		
5.2 Max. Monthly Duty	-	100,000 sheets		
5.3 MPBF	-	100,000 sheets		
5.4 MTTR	-	30 min.		
5.5 SET Life Cycle	-	250,000 sheets or 5 years (whichever comes first)		
5.6 RDS	Comm. Mode	N/A	Yes	
	Operation	N/A	Yes	

2.2.6 Environment

ML-3050 SERIES		ML-3050	ML-3051N	ML-3051ND
Acoustic Noise Level (Sound Power/Pressure)	Printing	Less than 54.0 dBA		
	Standby	Less than 39.0 dBA		
	Sleep	Back Ground Level		
Power Consumption	Ready	Less than 150W		
	AVG.	Less than 400W		
	Max/Peak	Less than 900W		
	Sleep/Power Off	Less than 11W / Less than 0.4W		
Dimension(W x D x H)	SET	390 x 436 x 265 mm (15.2 x17.2 x 10.5) -		
Weight	SET	10 kg		10.5 kg
	Gross	14 kg		14.5kg

2.2.7 Options

ML-3050 SERIES		ML-3050	ML-3051N	ML-3051ND
*Memory	-	16 MB, 32 MB, 64 MB, 128 MB, 256MB		
Second Cassette	-	250-sheet Cassette Tray		
Wired Network	-	Ethernet 10/100 Base TX (External) - ML-00ND	Default	
Wireless Network	-	802.11b Wireless LAN (External) - ML-00LA	802.11b/g Wireless LAN (Internal)	
Hard Disk	-	N/A		
Duplex Unit	-	N/A		Default

* Memory : The ML-3050 has 32MB of memory which can be expanded to 288MB, The ML-3051N or ML-3051ND has 64MB of memory which can be expanded to 320MB.

Item	Description	Model Code	Size
Memory DIMM	Exlends your Printers memory capacity.	ML-00MA ML-00MB ML-00MC ML-00MD ML-MEM140	16MB 32MB 64MB 128MB 256MB

2.2.8 Others

ML-3050 SERIES		ML-3050	ML-3051N	ML-3051ND
Memory	Upgradable Mem. Slot	1 EA		
	Upgradable Mem. Type	100 Pin SDRAM DIMM		
	Upgradable Mem. Unit	16MB, 32MB, 64MB, 128MB, 256MB		
Sensor	Paper Empty	YES		
	Paper Size	NO		
	Media Type	NO		
	Paper Full	NO		
Service	Service Item & Period	1. Transfer Roller : 70K pages 2. Fuser Unit : 80K pages 3. Pick-up Roller : 150K pages		

2.3 Model Comparison Table

	SEC ML-2550	SEC ML-3050	SEC ML-2570	SAMSUNG ML-3560
Image				
Engine	SEC	SEC	SEC	SEC
Speed(ppm)	24ppm	28ppm	33ppm	33ppm
Processor	266MHz	400MHz	400MHz	400MHz
Resolution	1,200X1,200 dpi	1,200X1,200 dpi	1,200X1,200 dpi	1,200X1,200 dpi
FPOT	12 sec	8.5 sec	8.5 sec	10 sec
Emulation	PS3, PCL6	PCL6	PS3, PCL6	PS3, PCL6
Ram(Std.)	32MB(Max. 160MB)	16MB(Max. 272MB)	64MB(Max. 320MB)	32MB(Max. 288MB)
Interface	IEEE1284, USB 2.0	IEEE1284, USB 2.0	IEEE1284, USB 2.0	IEEE1284, USB 2.0
Duplex	Yes	Factory Option	Factory Option	Option
Paper Input (Capa./Type)	550 Cassette, 100 MP	250 Cassette, 50 MP 250 SCF Opt.	250 Cassette, 50 MP 250 SCF Opt.	500 Cassette, 100 MP 500 SCF Option
Os Compatibility	Win 95/98/NT/2000/ Me/XP, Mac	Win 95/98/NT/2000/ Me/XP, Linux	Win 95/98/NT/2000/ Me/XP, Linux	Win 95/98/NT/2000/ Me/XP, Linux
Toner	10K	4K/8K	4K/8K	6K/12 K

2.4 ACCESSORY

Item	Code	Quantity
INA-ACCESSORY	JC99-01950K	-
CBF-POWER CORD	3903-000085	1
CBF-POWER CORD	3903-000146	1
CBF-POWER CORD	3903-000190	1
BAG PE	6902-000288	1
CBF INTERFACE-USB	JC39-00001A	1
S/W APPLICATION-CD	JC46-00276A	1
MANUAL-(CARD)WARRANTY CARD	JC68-00690A	1
LABEL(P)-BLANK 90*25	JC68-01584A	1

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