

**ISO/IEC 24734 Printing Productivity Report: Office Category**

**Full Detailed Test Report - LETTER**

Samsung ProXpress M4020ND

Printing device and settings	
Test Start Date and Time	6/19/2014 14:05
Tester	KN
Machine name/model	ProXpress M4020ND
Colour or B&W	B&W
FW Version	v4.00.01.14 Oct-18-2013
Temperature and Humidity	76 degF / 24 degC, 30 %RH
Voltage	110V
Test End Date and Time	7/10/2015 9:41

Item	Value	
<b>Mode and Setting</b>	Driver Version	v5.2.3790.1830
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Default
	Duplex B&W Settings	Default
	Setting N set count	Application
	Collating function	Activated (application)
<b>Paper Path</b>	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
<b>Paper</b>	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: Letter			
Office Category	Test for B&W Device	FSOT (seconds)	ESAT (ipm)
<b>B&amp;W</b>	Simplex	12.6	41.8
	Duplex	20.7	18.3

Notes  
 1) All printing device and driver settings were default mode.  
 2) For the B/W results, the print driver was set to "print in B/W".  
 3) For more information see <http://www.hp.com/go/printerclaims>.  
 4) Port monitor not configured to follow device if the IP address changes.

Detailed Report: LETTER						
	Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
			1 set only (1 set)	1 set only (1 set)	1 set + 30sec (# of sets)	
<b>Color Mode</b>	Simplex - Adobe Reader		( 1 set )			
	Simplex - Word		( 1 set )			
	Simplex - Excel		( 1 set )			
	Simplex - Average					
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
<b>B&amp;W mode</b> (optional for color device)	Simplex - Adobe Reader	12.64	( 1 set )	( 7 sets )	( 45 sets )	41.83
	Simplex - Word	12.23	( 1 set )	( 7 sets )		41.78
	Simplex - Excel	12.78	( 1 set )	( 7 sets )		41.83
	Simplex - Average	12.6			40.5	41.8
	Duplex - Adobe Reader	21.27	( 1 set )	( 4 sets )		18.34
	Duplex - Word	20.02	( 1 set )	( 4 sets )		18.32
	Duplex - Excel	20.55	( 1 set )	( 4 sets )		18.32
	Duplex - Average	20.7	11.6	16.0		18.3

Notes  
 1) All printing device and driver settings were default mode.  
 2) For the B/W results, the print driver was set to "print in B/W".  
 3) For more information see <http://www.hp.com/go/printerclaims>.  
 4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 -3770, 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCSHR ATA
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

**ISO/IEC 24734 Printing Productivity Report: Office Category**

**Full Detailed Test Report - A4**

Samsung ProXpress M4020ND

Printing device and settings	
Test Start Date and Time	6/19/2014 14:05
Tester	KN
Machine name/model	ProXpress M4020ND
Colour or B&W	B&W
FW Version	v4.00.01.14 Oct-18-2013
Temperature and Humidity	76 degF / 24 degC, 30 %rH
Voltage	110V
Test End Date and Time	7/10/2015 9:41

Item	Value	
Mode and Setting	Driver Version	v5.2.3790.1830
	Media/Quality Setting	Default / Default
	Simplex B&W Settings	Default
	Duplex B&W Settings	Default
	Setting N set count	Application
Collating function	Activated (application)	
Paper Path	Paper Sending Direction	Default
	Paper Size Setting	Default
	Paper Feeding	Tray 2
	Paper Exit	Standard Exit Tray
	Output Orientation	Default (face down)
	Duplexing Unit (Yes/No)	Yes
Paper	Paper Manufacturer	HP / Xerox
	Paper Weight	20lb / 75 g/m2
	Paper Size	Letter / A4
	Paper type/name	HP Multipurpose Ultra White / HP Office

Summary Report: A4			
Office Category Test for B&W Device		FSOT (seconds)	ESAT (ipm)
B&W	Simplex	13.0	39.7
	Duplex	20.7	17.8

Notes  
 1) All printing device and driver settings were default mode.  
 2) For the B/W results, the print driver was set to "print in B/W".  
 3) For more information see <http://www.hp.com/go/printerclaims>.  
 4) Port monitor not configured to follow device if the IP address changes.

Detailed Report: A4						
	Office Category Test	FSOT (secs)	EFTP (ipm)			ESAT (ipm)
			1 set only (1 set)	1 set + 30sec (1 set)	1 set + 30sec (# of sets)	
Colour Mode	Simplex - Adobe Reader		( 1 set )			
	Simplex - Word		( 1 set )			
	Simplex - Excel		( 1 set )			
	Simplex - Average					
	Duplex - Adobe Reader	N/A	N/A	N/A		N/A
	Duplex - Word	N/A	N/A	N/A		N/A
	Duplex - Excel	N/A	N/A	N/A		N/A
	Duplex - Average	N/A	N/A	N/A		N/A
B&W mode (optional for color device)	Simplex - Adobe Reader	13.08	18.34 ( 1 set )	33.04 ( 6 sets )	38.84 ( 56 sets )	39.75
	Simplex - Word	12.67	18.93 ( 1 set )	33.43 ( 6 sets )		39.67
	Simplex - Excel	13.07	18.36 ( 1 set )	33.22 ( 6 sets )		39.75
	Simplex - Average	13.0	18.5	33.2	38.8	39.7
	Duplex - Adobe Reader	20.74	11.54 ( 1 set )	15.64 ( 4 sets )		17.84
	Duplex - Word	20.28	11.82 ( 1 set )	15.70 ( 4 sets )		17.82
	Duplex - Excel	20.88	11.48 ( 1 set )	15.66 ( 4 sets )		17.82
	Duplex - Average	20.7	11.6	15.6		17.8

Notes  
 1) All printing device and driver settings were default mode.  
 2) For the B/W results, the print driver was set to "print in B/W".  
 3) For more information see <http://www.hp.com/go/printerclaims>.  
 4) Port monitor not configured to follow device if the IP address changes.

Test System Parameters	
Item	Value
Computer	HP Compaq Elite 8300 Small Form Factor
Processor	Intel Core i7 - 3770, 3.4 GHz
System Chip Set	Intel C216 Chipset Family SMBus Host Controller
System Board	system devices, default system BIOS
System Memory	4 GB
Hard Drive Subsystem	Standard disk drive (Seagate)
Video Subsystem	AMD Radeon HD 6350
Optical Drive	HP DVD A DH16aCSHR ATA
I/O Subsystem	Builtin
USB Subsystem	USB 2.0/3.0
TCP/IP	TCP/IP 10/1000
Operating System	Windows 7 64 Bit
Printing Applications	Microsoft Office 2010
Microsoft Office	Office 2010
Adobe Reader	10
Test files and location	Office category files, hard drive

**ISO/IEC 17629 First Print Out Time Report: Office Category**

**Full Detailed Test Report - LETTER**

Printing device and settings	
Test Start Date and Time	6/19/2014 14:05
Tester	KN
Machine name/model	ProXpress M4020ND
Colour or B&W	B&W
FW Version	v4.00.01.14 Oct-18-2013
Configuration (options)	Default
Controller	V1.00.02
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	77 degF / 25 degC, 29 %rH
Voltage	110V
Test End Date and Time	6/8/2015 6:20

Item	Value	
<b>Mode and Setting</b>	PDL and driver version	v5.2.3790.1830
	Print Quality mode	default
	B&W settings	default
	Paper feed orientation	Short Edge
<b>Paper</b>	Paper type setting	default
	Paper feeding	Standard cassette
<b>Paper Path</b>	Paper exit	Standard exit tray
	Output orientation	default (face up or face down)

ISO First Page Out Time Summary Report: Office Category		
Summary Report: Letter		
		FPOt from Ready (seconds)
<b>B&amp;W</b>	Simplex	7.66
	Duplex	13.32
Notes		
1) All printing device and driver settings were default mode.		
2) For the B/W results, the print driver was set to "print in B/W".		
3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> .		
4) Port monitor not configured to follow device if the IP address changes.		
5) Page counts were collected after completion of the tests.		

ISO First Page Out Time Report: Office Category						
Detailed Report: LETTER						
		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)	Delay Time
<b>Color Mode</b>	FPOt from Ready - Simplex					
	FPOt from Ready - Duplex					
	FPOt from Sleep - Simplex					
	Recovery Time					
	FPOt from Off - Simplex					
	Warm-up Time					
<b>B&amp;W Mode</b>	FPOt from Ready - Simplex	7.48	7.74	7.73	7.66	49 Seconds
	FPOt from Ready - Duplex	13.15	13.42	13.38	13.32	49 Seconds
	FPOt from Sleep - Simplex			16.55		61 Minutes
	Recovery Time			8.8		
	FPOt from Off - Simplex			39.38		
	Warm-up Time			31.65		
Notes						
1) All printing device and driver settings were default mode.						
2) For the B/W results, the print driver was set to "print in B/W".						
3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> .						
4) Port monitor not configured to follow device if the IP address changes.						
5) Page counts were collected after completion of the tests.						

Test System Parameters		
Item	Value	
<b>Test System</b>	Computer	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	system devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aCSHR ATA
	I/O Subsystem	Builitn
	USB Subsystem	USB 2.0/3.0
<b>Printing Device Connection</b>	TCP/IP	10/1000
<b>Software</b>	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	Printing Applications	Microsoft Office 2010 SP2
	Print Driver	Adobe Reader 10.1.4 v5.2.3790.1830

**ISO/IEC 17629 First Print Out Time Report: Office Category**

**Full Detailed Test Report - A4**

Samsung ProXpress M4020ND	
<b>Printing device and settings</b>	
Test Start Date and Time	6/19/2014 14:05
Tester	KN
Machine name/model	ProXpress M4020ND
Colour or B&W	B&W
FW Version	v4.00.01.14 Oct-18-2013
Configuration (options)	Default
Controller	V1.00.02
Printing device page count	Not Specified
Printing supplies page count	Not Specified
Temperature and Humidity	77 degF / 25 degC, 29 %rH
Voltage	110V
Test End Date and Time	6/8/2015 6:20

	Item	Value
<b>Mode and Setting</b>	PDL and driver version	v5.2.3790.1830
	Print Quality mode	default
	B&W settings	default
	Paper feed orientation	Short Edge
<b>Paper</b>	Paper type setting	default
	Paper feeding	Standard cassette
<b>Paper Path</b>	Paper exit	Standard exit tray
	Output orientation	default (face up or face down)

ISO First Page Out Time Summary Report: Office Category		
Summary Report: A4		
		<b>F POT from Ready (seconds)</b>
<b>B&amp;W</b>	Simplex	7.85
	Duplex	13.50
Notes		
1) All printing device and driver settings were default mode.		
2) For the B/W results, the print driver was set to "print in B/W".		
3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> .		
4) Port monitor not configured to follow device if the IP address changes.		
5) Page counts were collected after completion of the tests.		

ISO First Page Out Time Report: Office Category						
Detailed Report: A4						
		Word (seconds)	Excel (seconds)	Adobe Reader (seconds)	Average (seconds)	Delay Time
<b>Colour Mode</b>	F POT from Ready - Simplex					
	F POT from Ready - Duplex					
	F POT from Sleep - Simplex					
	Recovery Time					
	F POT from Off - Simplex					
	Warm-up Time					
<b>B&amp;W Mode</b>	F POT from Ready - Simplex	7.65	8.02	7.86	7.85	49 Seconds
	F POT from Ready - Duplex	13.35	13.61	13.52	13.5	49 Seconds
	F POT from Sleep - Simplex			15.94		61 Minutes
	Recovery Time			8.1		
	F POT from Off - Simplex			39.15		
	Warm-up Time			31.29		
Notes						
1) All printing device and driver settings were default mode.						
2) For the B/W results, the print driver was set to "print in B/W".						
3) For more information see <a href="http://www.hp.com/go/printerclaims">http://www.hp.com/go/printerclaims</a> .						
4) Port monitor not configured to follow device if the IP address changes.						
5) Page counts were collected after completion of the tests.						

Test System Parameters		
	Item	Value
<b>Test System</b>	Computer	HP Compaq Elite 8300 Small Form Factor
	Processor	Intel Core i7 -3770, 3.4 GHz
	System Chip Set	Intel C216 Chipset Family SMBus Host Controller
	System Board	system devices, default system BIOS
	System Memory	4 GB
	Hard Drive Subsystem	Standard disk drive (Seagate)
	Video Subsystem	AMD Radeon HD 6350
	Optical Drive	HP DVD A DH16aCSHR ATA
	I/O Subsystem	Builitn
	USB Subsystem	USB 2.0/3.0
<b>Printing Device Connection</b>	TCP/IP	10/1000
<b>Software</b>	Operating System	Windows 7 Business/Ultimate, 64 bit, Build 7601, SP 1
	Printing Applications	Microsoft Office 2010 SP2
	Print Driver	Adobe Reader 10.1.4 v5.2.3790.1830