

ISO/IEC 24734 Printing Productivity Report: Office Category  
 ISO/IEC 29183 Copying Productivity Report  
 ISO/IEC 17629 First Page Out Time Report

Full Detailed Test Reports  
 HP Officejet 252 Mobile All-in-One N4L16C

Printing device and test settings	
Test Start Date and Time	18/2/16 12:00AM 18/2/16 12:00AM
Tester	Karen Toa
Machine product number	N4L16C
Machine name/model	HP Officejet 252 Mobile All-in-One
FW Version	RM1CN1607AR
Colour or B&W	Color
Temperature and humidity	23-25/50%
Voltage	240V
Test End Date and Time	24/2/16 12:00AM 24/2/16 12:00AM

Item	Value
Driver version	3.3020.19384
Media / Quality Setting	Plain/Normal
Simplex B&W settings	Black and White
Duplex B&W settings	N/A
Setting N set count	Application
Collate function	Enabled in Application
Paper Path	Paper sending direction: Default
	Paper size setting: Default
	Paper feeding: Standard cassette
	Paper exit: Standard exit tray
	Output orientation: Face up
	Duplexing ADF Unit: No
Paper	Duplexing Print Unit: No
	Paper Manufacturer: HP
	Weight: 80gsm
	Size: A4
	Paper type/name: HP Everyday Paper ColorLok

Summary Reports			
ISO/IEC 24734		FSOT (seconds)	ESAT (µm)
Color	Single Sided	41	7
	Two Sided	N/A	N/A
B&W	Single Sided	30	10
	Two Sided	N/A	N/A

Notes: 1) µm = Images Per Minute and is equivalent to ppm or Pages Per Minute  
 2) For Simplex B&W results, Black and White  
 3) For Duplex B&W results, N/A  
 4) Scale constant for A4 for 8.5x11 paper sizes set to off for Word and Excel

FDIS ISO/IEC 29183			
		FCOT (seconds)	sESAT (µm)
Color	Simplex	13	8
	B&W	13	8

Notes: 1) µm = Images Per Minute and is equivalent to ppm or Pages Per Minute

ISO/IEC 17629		
		FPOT From Ready (sec)
Color	Simplex	11
B&W	Simplex	11

Notes: 1) For B&W results, Black and White

Full Reports

ISO/IEC 24734		Office Category	FSOT (sec)	EFTP (µm)			sESAT (µm)
Color	Single Sided	PDF (# sets)	1 Set	1 Set + 30 seconds	1 Set + 4 Minutes	8	
			Word (# sets)	44.00	5.00		5.00
Color	Two Sided	PDF (# sets)	1	1	2	8	
			Word (# sets)	29.00	1	1	10.10
Color	Two Sided	Excel (# sets)	47.00	N/A	N/A	6.00	
			Average	41	N/A	N/A	7
Color	Two Sided	PDF (# sets)	N/A	N/A	N/A	N/A	
			Word (# sets)	N/A	N/A	N/A	
Color	Two Sided	Excel (# sets)	N/A	N/A	N/A	N/A	
			Average	N/A	N/A	N/A	
B&W	Single Sided	PDF (# sets)	30.00	8.00	9.00	9.80	
			Word (# sets)	25.00	8.00	9.00	11.90
B&W	Single Sided	Excel (# sets)	32.00	8.00	9.00	9.40	
			Average	30	8.00	9.00	10
B&W	Two Sided	PDF (# sets)	N/A	N/A	N/A	N/A	
			Word (# sets)	N/A	N/A	N/A	
B&W	Two Sided	Excel (# sets)	N/A	N/A	N/A	N/A	
			Average	N/A	N/A	N/A	

Notes: 1) µm = Images Per Minute and is equivalent to ppm or Pages Per Minute  
 2) For Simplex B&W results, Black and White  
 3) For Duplex B&W results, N/A  
 4) Scale constant for A4 for 8.5x11 paper sizes set to off for Word and Excel

FDIS ISO/IEC 29183		FCOT (sec)	sEFTP (µm)			sESAT (µm)
Color	Page 1 (# copies)	18.80	1 Copy	1 Copy + 30 seconds	1 Copy + 4 Minutes	4.40
	Page 2 (# copies)	18.70	3.00	4.00	4.00	5.40
Color	Page 3 (# copies)	18.60	3.00	4.00	4.00	4.40
	Page 4 (# copies)	19.60	3.00	3.00	4.00	4.00
Color	Average (# copies)	20	3	4	4	4
	Page 1 (# copies)	12.30	5.00	7.00	8.00	8.30
Black	Page 2 (# copies)	10.90	5.00	9.00	6	9.80
	Page 3 (# copies)	12.00	5.00	7.00	8	8.40
Black	Page 4 (# copies)	12.40	5.00	7.00	8	8.20
	Average (# copies)	13	5	7	8	8

Notes: 1) µm = Images Per Minute and is equivalent to ppm or Pages Per Minute

ISO/IEC 17629		FPOT from Ready (sec)	FPOT from Sleep (sec)	Recovery Time (sec)
Color Simplex	PDF	14.00	15.00	1.00
	Word	9.70	12.50	2.80
	Excel	12.50	12.50	0.00
	Average	13.80	13.30	1.40
B&W Simplex	Delay Time 50 sec	8.00	10.00	2.00
	PDF	8.00	11.00	3.00
	Word	8.50	11.00	2.50
	Excel	10.00	11.00	1.00
B&W Simplex	Average	11.80	10.70	1.10
	Delay Time 50 sec	8.00	10.00	2.00

Notes: 1) For B&W results, Black and White  
 2) FPOT from Sleep = FPOT from Ready + Recovery Time  
 3) Scale constant for A4 for 8.5x11 paper sizes set to off for Word and Excel

Test system parameters		Item	Value
Test System	Computer	HP Envoy 15 Notebook	
	Processor	Intel Core i5-4210U 1.70GHz	
	System CPU Set	Intel Chipset	
	System Board	229A	
	System Memory	8GB 1600MHz DDR3L	
	Hard Drive subsystem	HGST 200GB of storage	
	Video subsystem	Intel HD graphics	
	Optical Drive	HP DVD-RW GJ80N	
	FD subsystem	Built in	
	USB subsystem	USB 2.0/3.0	
Software	Printer Connection	USB 2.0	
	Operating System	Microsoft Windows 8.1 Multi Language 64 E-d	
	Printing Applications	Microsoft Office Word 2013 64-bit SP1 Microsoft Office Excel 2013 64-bit SP1	
	Test Files and location	Office Category files, hard drive	

ISO/IEC 24734 Printing Productivity Report: Office Category  
 ISO/IEC 29183 Copying Productivity Report  
 ISO/IEC 17629 First Page Out Time Report

Full Detailed Test Reports  
 HP Officejet 252 Mobile All-in-One N4L16C

Printing device and test settings

Item	Value
Test Start Date and Time	18/2/16 12:00AM 18/2/16 12:00AM
Tester	Karen Toa
Machine product number	N4L16C
Machine name/model	HP Officejet 252 Mobile All-in-One
FW Version	RM1CN1607AR
Colour or B&W	Color
Temperature and humidity	23-25/50RH
Voltage	Battery
Test End Date and Time	24/2/16 12:00AM 24/2/16 12:00AM

Item	Value
Driver version	3.3020.16384
Media / Quality Setting	Plain/Normal
Simplex B&W settings	Black and White
Duplex B&W settings	N/A
Setting N set count	Application
Collate function	Enabled in Application
Paper Path	Paper sending direction: Default
	Paper size setting: Default
	Paper feeding: Standard cassette
	Paper exit: Standard exit tray
	Output orientation: Face up
	Duplexing ADF Unit: No
	Duplexing Print Unit: No
Paper	Paper Manufacturer: HP
	Weight: 80gsm
	Size: A4
	Paper type/name: HP Everyday Paper ColorLok

Summary Reports

ISO/IEC 24734	FSOT (seconds)	ESAT (gpm)
Color	43	8
	Single Sided	N/A
	Two Sided	N/A
B&W	31	8
	Single Sided	N/A
	Two Sided	N/A

Notes: 1) gpm = Images Per Minute and is equivalent to ppm or Pages Per Minute  
 2) For Simplex B&W results, Black and White  
 3) For Duplex B&W results, NA  
 4) Scale constant for A4 for 8.5x11 paper sizes set to off for Word and Excel

ISO/IEC 29183	FCOT (seconds)	sESAT (gpm)
Color	11	7
B&W	11	7

Notes: 1) gpm = Images Per Minute and is equivalent to ppm or Pages Per Minute

ISO/IEC 17629	FPOT From Ready (sec)
Color Simplex	11
B&W Simplex	11

Notes: 1) For B&W results, Black and White

Full Reports

ISO/IEC 24734	Office Category	FSOT (sec)	EFTP (gpm)				sESAT (gpm)
			1 Set	1 Set + 30 seconds	1 Set + 4 Minutes	1 Set + 4 Minutes	
Color	Single Sided	PDF (# sets)	46.00	5.00	5.00	5.00	5.90
		Word (# sets)	31.00	1	1	1	9.50
		Excel (# sets)	48.00	1	1	1	5.60
		Average	43				8
	Two Sided	PDF (# sets)	N/A	N/A	N/A	N/A	N/A
		Word (# sets)	N/A				N/A
Excel (# sets)		N/A				N/A	
	Average	N/A				N/A	
B&W	Single Sided	PDF (# sets)	31.00	8.00	8.00	9.00	9.20
		Word (# sets)	28.00				11.20
		Excel (# sets)	33.00				9.00
		Average	31				8
	Two Sided	PDF (# sets)	N/A	N/A	N/A	N/A	N/A
		Word (# sets)	N/A				N/A
Excel (# sets)		N/A				N/A	
	Average	N/A				N/A	

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 2) For Simplex B&W results, Black and White  
 3) For Duplex B&W results, NA  
 4) Scale constant for A4 for 8.5x11 paper sizes set to off for Word and Excel

ISO/IEC 29183	Page	FCOT (sec)	sEFTP (gpm)			sESAT (gpm)
			1 Copy	1 Copy + 30 seconds	1 Copy + 4 Minutes	
Color	Page 1 (# copies)	20.20	3.00	3.00	4.00	4.00
	Page 2 (# copies)	19.90	3.00	4.00	20	5.30
	Page 3 (# copies)	19.50	3.00	3.00	4	4.20
	Page 4 (# copies)	22.70	2.00	3.00	4	3.60
	Average (# copies)	20	3	3	3	3
Black	Page 1 (# copies)	12.80	4.00	7.00	8.00	7.90
	Page 2 (# copies)	12.00	5.00	8.00	7	9.30
	Page 3 (# copies)	13.20	4.00	7.00	8	7.70
	Page 4 (# copies)	14.40	4.00	6.00	8	7.50
	Average (# copies)	14	4	7	7	7

Notes: 1) gpm = Images Per Minute and is equivalent to ppm or Pages Per Minute

ISO/IEC 17629	FPOT From Ready (sec)	FPOT From Sleep (sec)	Recovery Time (sec)	
Color Simplex	PDF	14.70	15.00	2.00
	Word	10.40		
	Excel	13.30		
	Average	14.80		
B&W Simplex	Delay Time	50 sec	100 mm	
	PDF	8.90	11.00	2.00
	Word	8.90		
	Excel	10.50		
	Average	11.80	50 mm	
	Delay Time	50 sec	50 mm	

Notes: 1) For B&W results, Black and White  
 2) FPOT from Sleep = FPOT from Ready + Recovery Time  
 3) Scale constant for A4 for 8.5x11 paper sizes set to off for Word and Excel

Test system parameters

Item	Value
Computer	HP Envoy 15 Notebook
Processor	Intel Core i5-4210U 1.70GHz
System CPU Set	Intel Chipset
System Board	228A
System Memory	8GB 1600MHz DDR3L
Hard Drive subsystem	HGST 200GB of storage
Video subsystem	Intel HD graphics
Optical Drive	HP DVDRW G8-B0N
IO subsystem	Built in
USB subsystem	USB 2.0/3.0
IG	Printer Connection: USB 2.0
Software	Operating System: Microsoft Windows 8.1 Multi Language 64 E-d
	Printing Applications: Microsoft Office Word 2013 64-bit SP1
	Microsoft Office Excel 2013 64-bit SP1
	Adobe Reader X 11.0.10
	Test Files and location: Office Category files, hard drive