

Minimum Specifications for AIOs

Parameters	Entry Level Desktop PC (Normal Office Function)		Mid Level Desktop PC (Normal Office Function)		High Level Desktop PC (Middle/ Higher Mgmt/ Mid Scale Programming/ Development)	
	Processor Make	Intel Core i3 13th Gen or higher	AMD Ryzen™ 3 Series Desktop Processors or higher	Intel Core i5 13th Gen or higher	AMD Ryzen™ 5 Series Desktop Processors or higher	Intel Core i7 13th Gen or higher
Generation	13th or Higher	5000 Series or Higher	13th or Higher	5000 Series or Higher	13th or Higher	5000 Series or Higher
CPU Architecture	x64	CPU Socket: AM4 or higher	x64	CPU Socket: AM4 or higher	x64	CPU Socket: AM4 or higher
Speed (Min Base Freq)	2.2 Ghz or Higher	3.8 Ghz or Higher	2.2 Ghz or Higher	3.8 Ghz or Higher	2.1 Ghz or Higher	3.8 Ghz or Higher
Max. Boost Clock Freq	4.10 Ghz or Higher	4.20 Ghz or Higher	4.10 Ghz or Higher	4.20 Ghz or Higher	4.4 Ghz or Higher	4.5 Ghz or Higher
CPU Cores	Min 4	Min 4 Multithreaded Cores	Min 4	Min 6 Multithreaded Cores	Min 6	Min 8 Multithreaded Cores
CPU Threads	Min 8	Min 8	Min 8	Min 12	Min 12	Min 16
Cache	12 MB or Higher	8 MB or Higher	12 MB or Higher	16 MB or Higher	12 MB or Higher	16 MB or Higher
RAM	8 GB DDR4 or Higher expandable upto 32 GB	8 GB DDR4 or Higher expandable upto 32 GB	8 GB DDR4 or Higher expandable upto 64 GB	8 GB DDR4 or Higher expandable upto 64 GB	16 GB DDR4 or Higher expandable upto 64 GB	16 GB DDR4 or Higher expandable upto 64 GB
RAM Slots	Minimum 2 DIMM RAM Slot or higher	Minimum 2 DIMM RAM Slot or higher	Minimum 2 DIMM RAM Slot or higher	Minimum 2 DIMM RAM Slot or higher	Minimum 2 DIMM RAM Slot or higher	Minimum 2 DIMM RAM Slot or higher
ROM/ HDD	256 GB SSD	256 GB SSD	256 GB SSD	256 GB SSD	256 GB SSD	256 GB SSD
	1 TB Sata HDD	1 TB Sata HDD	1 TB Sata HDD	1 TB Sata HDD	1 TB Sata HDD	1 TB Sata HDD
Chipset/ Mother Board	Intel 600 Series or higher	(Pro 500 or Pro 565 or Higher)	Intel 600 Series or higher	(Pro 500 or Pro 565 or Higher)	Intel 600 Series or higher	(Pro 500 or Pro 565 or Higher)
Display Size	23.8" or Higher FHD	23.8" or Higher FHD	23.8" or Higher FHD	23.8" or Higher FHD	23.8" or Higher FHD	23.8" or Higher FHD
Display Type	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher
Connectivity	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher
Keyboard	Wired USB of Same Make as Desktop OEM	Wired USB of Same Make as Desktop OEM	Wired USB of Same Make as Desktop OEM	Wired USB of Same Make as Desktop OEM	Wired/Wireless USB of Same Make as Desktop OEM	Wired/Wireless USB of Same Make as Desktop OEM
Mouse	Wired USB of Same Make as Desktop OEM	Wired USB of Same Make as Desktop OEM	Wired USB of Same Make as Desktop OEM	Wired USB of Same Make as Desktop OEM	Wired/Wireless USB of Same Make as Desktop OEM	Wired/Wireless USB of Same Make as Desktop OEM
Factory preloaded OS	Windows 11 Professional 64 bit OS	Windows 11 Professional 64 bit OS	Windows 11 Professional 64 bit OS	Windows 11 Professional 64 bit OS	Windows 11 Professional 64 bit OS	Windows 11 Professional 64 bit OS
Warranty	3Yrs comprehensive onsite	3Yrs comprehensive onsite	3Yrs comprehensive onsite	3Yrs comprehensive onsite	3Yrs comprehensive onsite	3Yrs comprehensive onsite

Note: "The following specifications have been developed with the fundamental needs of a Government Office in mind. They are both prescriptive and suggestive, intended to address general office-related requirements. Should a department wish to procure higher-end items or modify any specifications listed here due to specific needs, they can do so in accordance with the Government Order Notification I/160676/2023 dated 11/10/2023."

Single Function & Multi Function Printer Minimum Specs (A4 size)				
Parameters	MFP- (PSC) Mono	MFP- (PSC) Color	Printer (Mono)	Printer (Color)
Print Technology	Laser/ Ink tank	Laser/ Ink tank	Laser/ Ink tank	Laser/ Ink tank
Type of Printing	Mono	Color	Mono	Color
Type of Machine	Multi Function	Multi Function	Single Function	Single Function
Paper Size	A4/Legal	A4/Legal	A4/Legal	A4/Legal
Flatbed Size	A4/Legal	A4/Legal	NA	NA
Print Speed (mono)	18 PPM or higher	18 PPM or higher	18 PPM or higher	18 PPM or Higher
Automatic Document Feeder	Optional (as per need)	Optional (as per need)	Not Applicable	Not Applicable
Duplex Feature	Yes (Auto)	Yes (Auto)	Optional	Optional
Network Connectivity	Yes (LAN)	Yes (LAN)	Optional	Optional
USB Port	Yes	Yes	Yes	Yes
Duty Cycle	Min 10000 per month	Min 10000 per month	Min 5000 per month	Min 5000 per month
Onsite OEM Warranty	Min 3 Yrs	Min 3 Yrs	Min 3 Yrs	Min 3 Yrs
Wireless Connectivity	Yes	Yes	Yes	Yes
RAM	Min 64 Mb	Min 64 Mb	Min 64 Mb	Min 64 Mb

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1000 for Laser

CMY - 700, K - 1000

5000 for inkjet

A3 Size Multifunctional Duplex Colour Laser Printer –Copier Machine Specifications		
Parameters	Color Copier	Mono Copier
Printer Type:	Print, Scan, Copy	Print, Scan, Copy
Maximum Print Resolution:	1200 x 1200 dpi or better	1200 x 1200 dpi or better
Paper Size (Original/Image):	A3/A3	A3/A3
Processor:	1.2 GHz Dual Core Processor or better	1.2 GHz Dual Core Processor or better
Minimum RAM Size (GB)	2 GB	2 GB
Automatic Duplex Printing :	up to A3 size	up to A3 size
PPM	Minimum 20 PPM	Minimum 20 PPM
Minimum Hard Disk Capacity (GB):	256 GB (Optional)	256 GB (Optional)
Document Feeder:	Platen or DADF or RADF or SPDF as per need	Platen or DADF or RADF or SPDF as per need
Platen/Flatbed Size:	A3	A3
Print Direction:	Bi-Directional Printing, Uni -Directional Printing	Bi-Directional Printing, Uni -Directional Printing
Cartridge Technology:	Separate Drum and Toner	Separate Drum and Toner
Copy Function/ Resolution:	600 x 600 dpi or Higher	600 x 600 dpi or Higher
Max copies :	999 copies	999 copies
Reduction / Enlargement:	25-400% , Auto Fit Function	25-400% , Auto Fit Function
Scan Functon:	Flatbed colour image scanner	Flatbed colour image scanner
Optical resolution:	600 x 600 dpi or Higher	600 x 600 dpi or Higher
Networking:	Ethernet 10/100/1000	Ethernet 10/100/1000
Number of Main Paper Tray:	2	2
Main Paper Tray Minimum Capacity (Number):	500	500
Minimum By Pass Tray Capacity:	100	100
Yield of the cartridge supplied with Machine in terms of number of prints:	atleast 10000	atleast 10000
Life of Drum in terms of number of Prints:	atleast 50000	atleast 50000
Trolley with castor wheels:	Optional (as per need)	Optional (as per need)
Duty Cycle (No of Prints/Month)	50000	50000
Warranty:	3 Year Comprehensive onsite warranty	3 Year Comprehensive onsite warranty

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Minimum Specifications for Desktop PC

Parameters	Entry Level Desktop PC (Normal Office Function)		Mid Level Desktop PC (Normal Office Function)		High Level Desktop PC (Middle/ Higher Mgmt/ Mid Scale Programming/ Development)	
Processor Make	Intel Core i3 13th Gen or higher	AMD Ryzen™ 3 Series Desktop Processors or higher	Intel Core i5 13th Gen or higher	AMD Ryzen™ 5 Series Desktop Processors or higher	Intel Core i7 13th Gen or higher	AMD Ryzen™ 7 Series Desktop Processors or higher
Generation	13th or Higher	5000 Series or Higher	13th or Higher	5000 Series or Higher	13th or Higher	5000 Series or Higher
CPU Architecture	x64	CPU Socket: AM4 or higher	x64	CPU Socket: AM4 or higher	x64	CPU Socket: AM4 or higher
Speed (Min Base Freq)	2.2 Ghz or Higher	3.8 Ghz or Higher	2.2 Ghz or Higher	3.8 Ghz or Higher	2.1 Ghz or Higher	3.8 Ghz or Higher
Max. Boost Clock Freq	4.10 Ghz or Higher	4.20 Ghz or Higher	4.10 Ghz or Higher	4.20 Ghz or Higher	4.4 Ghz or Higher	4.5 Ghz or Higher
CPU Cores	Min 4	Min 4 Multithreaded Cores	Min 4	Min 6 Multithreaded Cores	Min 6	Min 8 Multithreaded Cores
CPU Threads	Min 8	Min 8	Min 8	Min 12	Min 12	Min 16
Cache	12 MB or Higher	8 MB or Higher	12 MB or Higher	16 MB or Higher	12 MB or Higher	16 MB or Higher
RAM	8 GB DDR4 or Higher expandable upto 32 GB	8 GB DDR4 or Higher expandable upto 32 GB	8 GB DDR4 or Higher expandable upto 64 GB	8 GB DDR4 or Higher expandable upto 64 GB	16 GB DDR4 or Higher expandable upto 64 GB	16 GB DDR4 or Higher expandable upto 64 GB
ROM/ HDD	256 GB SSD	256 GB SSD	256 GB SSD	256 GB SSD	256 GB SSD	256 GB SSD
	1 TB HDD	1 TB HDD	1 TB HDD	1 TB HDD	1 TB HDD	1 TB HDD
Chipset/ Mother Board	Intel 600 Series or higher	(Pro 500 or Pro 565 or Higher)	Intel 600 Series or higher	(Pro 500 or Pro 565 or Higher)	Intel 600 Series or higher	(Pro 500 or Pro 565 or Higher)
Display Size	21" or Higher FHD	21" or Higher FHD	21" or Higher FHD	21" or Higher FHD	21" or Higher FHD	21" or Higher FHD
Display Type	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher
Dedicated Graphic Card	-		-		Compatible Graphic Card with 4GB DDR RAM or Higher	
Connectivity	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher
Keyboard	Wired USB of Same Make as Desktop OEM	Wired USB of Same Make as Desktop OEM	Wired USB of Same Make as Desktop OEM	Wired USB of Same Make as Desktop OEM	Wired/Wireless USB of Same Make as Desktop OEM	Wired/Wireless USB of Same Make as Desktop OEM
Mouse	Wired USB of Same Make as Desktop OEM	Wired USB of Same Make as Desktop OEM	Wired USB of Same Make as Desktop OEM	Wired USB of Same Make as Desktop OEM	Wired/Wireless USB of Same Make as Desktop OEM	Wired/Wireless USB of Same Make as Desktop OEM
Factory preloaded OS	Windows 11 Professional 64 bit OS	Windows 11 Professional 64 bit OS	Windows 11 Professional 64 bit OS	Windows 11 Professional 64 bit OS	Windows 11 Professional 64 bit OS	Windows 11 Professional 64 bit OS
Warranty	3Yrs comprehensive onsite	3Yrs comprehensive onsite	3Yrs comprehensive onsite	3Yrs comprehensive onsite	3Yrs comprehensive onsite	3Yrs comprehensive onsite

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Minimum Specifications for Laptop

Parameters	Entry Level Laptop (Normal Office Function)		Mid Level Laptop (Middle/ Higher Mgmt/ Mid Scale Programming/ Development)		High End Laptop (Top Mgmt/ High End Programming/ Development)	
Processor	Intel Core i3 13th Gen or higher	AMD Ryzen™ 3 Series Processors or higher	Intel Core i5 13th Gen or higher	AMD Ryzen™ 5 Series Processors or higher	Intel Core i7 13th Gen or higher	AMD Ryzen™ 7 Series Processors or higher
Generation	13th Gen or Higher	5000 Series or Higher	13th Gen or Higher	5000 Series or Higher	13th Gen or Higher	5000 Series or Higher
Speed (Min Base Freq)	1.2 Ghz or Better	2.0 Ghz or Higher	1.3 Ghz or Higher	2.0 Ghz or Higher	1.6 Ghz or Higher	2.0 Ghz or Higher
Max. Boost Clock Freq	4.10 Ghz or Higher	4.0 Ghz or Higher	4.4 Ghz or Higher	4.0 Ghz or Higher	4.9 Ghz or Higher	4.0 Ghz or Higher
CPU Cores	Min 4 or Higher	Min 4 Multithreaded Cores	Min 6	Min 6 Multi threaded Cores	Min 8	Min 8 Multi threaded Cores
CPU Threads	Min 8	Min 8	Min 12	Min 12	Min 16	Min 16
Cache	12 MB or Higher	8 MB or Higher	12 MB or Higher	16 MB or Higher	16 MB or Higher	16 MB or Higher
RAM	Minimum 1X8 GB DDR4	Minimum 1X8 GB DDR4	Minimum 1x16 GB DDR4	Minimum 1x16 GB DDR4	Minimum 1X16 GB DDR4	Minimum 1X16 GB DDR4
Maximum RAM	Expandable upto 32 GB	Expandable upto 16 GB	Expandable upto 64 GB	Expandable upto 32 GB	Expandable upto 128 GB	Expandable upto 32 GB
Slot	Minimum 2 DIMM RAM Slot or higher	Minimum 2 DIMM RAM Slot or higher	Minimum 2 DIMM RAM Slot or higher	Minimum 2 DIMM RAM Slot or higher	Minimum 2 DIMM RAM Slot or higher	Minimum 2 DIMM RAM Slot or higher
ROM/ HDD	512 GB SSD or Higher	512 GB SSD or Higher	512 GB SSD or Higher	512 GB SSD or Higher	512 GB SSD or Higher	512 GB SSD or Higher
Display Size	14" or Higher	14" or Higher	14" or Higher	14" or Higher	14" or Higher	14" or Higher
Display Type	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher	Integrated graphics processor capable of Full HD Resolution 1920 X 1080 or higher
Connectivity	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher	10/100/1000 on board Integrated Gigabit Port & on-board WiFi 802.11 bgn/ac + Bluetooth 5.0 or higher
Factory preloaded OS	Windows 11 Professional 64 bit OS	Windows 11 Professional 64 bit OS	Windows 11 Professional 64 bit OS	Windows 11 Professional 64 bit OS	Windows 11 Professional 64 bit OS	Windows 10 or 11- 64-Bit Professional Edition
Warranty	3Yrs comprehensive onsite including Battery	3Yrs comprehensive onsite including Battery	3Yrs comprehensive onsite including Battery	3Yrs comprehensive onsite including Battery	3Yrs comprehensive onsite including Battery	3Yrs comprehensive onsite including Battery
Accessories	To be supplied with backpack	To be supplied with backpack	To be supplied with backpack	To be supplied with backpack	To be supplied with backpack	To be supplied with backpack

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