

# Tablet Computers

## Tablets

Tablets are the latest trend for mobile computing. They bridge the gap between laptop computers and mobile smartphones in terms of size and functions. They are great for web browsing, email and watching movies while traveling. Many people also use them as a portable gaming platform. They can even substitute for some laptop tasks when performance is not really required

## Things to be Considered

Main factors (other than the price) to be considered before purchasing a tablet are;

### Screen Size

As with laptops, screen size on tablets is measured diagonally from corner to corner and usually expressed in inches.

Tablets typically fall into three categories:

- Compact (5-inch to 8-inch),
- Medium (over 8-inch to 11-inch) and
- Large (over 11-inch).

A compact tablet is especially portable, lighter and easier to carry, as well as usually being cheaper. Medium and large tablets provide a bigger screen area that can be especially useful for productivity apps, games and web browsing.

## Screen Resolution

Display resolution is expressed in pixels-per-inch (ppi) and the higher the resolution the sharper text and images will appear. The display resolution generally ranges from 1024 x 600 pixels up to 2560 x 1700 pixels. Higher resolution screens require faster processors to manipulate all those extra pixels and consume more power, affecting the device's battery life.

## Storage Space

Most tablets vary in capacity from 16GB to 128GB. User can choose the storage space depends on their needs. All tablets are good for general use like checking emails, browsing the web, and streaming videos and other content over the internet, because that doesn't require much information to be actually stored on the tablet itself.

Unlike most of the tablets from Microsoft and Google, the storage in an Apple iPad cannot be upgraded using an expandable microSD card.

## Online Access

Most tablets have Wi-Fi built in, and many offer a version that includes mobile broadband – 3G or 4G – for data, but that means signing up for a separate plan. The other option is a Wi-Fi only tablet. These can be used, as the name suggests, over Wi-Fi connections, but also by using your smartphone as a mobile hotspot.

## Hardware Connections

Although connections are a major consideration for PCs and laptops, they're less so for tablets, most of which use a combination of Wi-Fi, Bluetooth and apps for storage and transfers. Apple tablets have little in the way of hardware connections, though some devices can be added via adapters to the tablet's dock port, or wirelessly by purpose-built devices. Android tablets generally offer more variety in hardware connections, with a USB port, HDMI-out or memory card slots for extra storage being common.

## Battery Life

It is important due to the ultra-portability of tablets. Ideally, they should last a full day of normal use before need to recharge.

## Processing Speed (GHz)

The processing speed of your tablet, measured in gigahertz (GHz), is not such an important decision in tablet choice as it is when choosing a desktop or laptop computer. That's because there aren't so many processor options. iPad models all have the same processor in each generation but with Android-based tablets it's very difficult to compare speeds between models due to the different processors used.

## Operating System

The OS affects which content ecosystem a user tied to – Google Play (Android), iTunes (Apple) or Windows (Microsoft). Each has their own app store and though they might all have some of the same apps, they're not interchangeable between platforms. So if a user has an Android, an Apple and a Windows device, he/she would probably have to buy the same app three times to run it on each platform.

### Apple's iOS

Apple boasts more than a million apps in its App Store, with around half that number having iPad-specific versions.

### Google's Android OS

Android is available on a wide range of tablets from different manufacturers, so you have a wide choice of hardware with now as many apps

### Microsoft

The full Windows 10 environment is available on most Microsoft tablets and

two-in-ones, so you can easily use existing Windows programs. There is also a cut down version (Windows 10 in S Mode) which you can use and upgrade to the full version but only once.

## Choosing the Right Tablet

The Government organizations can choose the right Tablet according to their requirements, level of usage and the price.

### Type I

If a Government organization require a cheap Tablet for basic tasks such as checking emails, using social media sites and browsing the web, and perhaps for reading documents and basic research and are not overly concerned about performance, can the Entry Level Tablets.

### Type II

Mid- range Tablets are specially designed for business or office use and it has more processing power that supports multitasking and more RAM to ensure the programs and applications run smoothly.

### Type III

High-end Tablets are identical for the people who demand the very best from their technology, need critical processing to feed information to systems, look for a model that will run large media files efficiently. This may include features such as a powerful processor, more RAM (or memory), a larger screen, better screen resolution, and enhanced audio quality.

## Specifications for Tablet Computers

Criteria	Type I	Type II	Type III
<b>Brand</b>	(Specify)	(Specify)	(Specify)
<b>Model &amp; Year</b>	(Specify)	(Specify)	(Specify)
<b>Country of Manufacture</b>	(Specify)	(Specify)	(Specify)
<b>Manufactured Year</b>	2020 or Later	2020 or Later	2020 or Later
<b>Processor</b>	Quad-Core 1.3GHz or better	Quad-Core 2.0GHz or better	Octa-Core 1.8GHz or better
<b>Chipset</b>	(Specify)	(Specify)	(Specify)
<b>Network Support</b>	2G/3G/4G LTE	2G/3G/4G LTE	2G/3G/4G LTE
<b>Wi-Fi</b>	Wi-Fi 802.11 ac Dual band	Wi-Fi 802.11 ac Dual band	Wi-Fi 802.11 ac Dual band
<b>Bluetooth</b>	Version 4.2 or better, A2DP	Version 4.2 or better, A2DP	Version 4.2 or better, A2DP
<b>Storage Memory</b>	Card slot: Micro SD support up to 64GB, Internal: 8GB or better	Card slot: Micro SD support up to 128GB, Internal: 16GB or better	Card slot: Micro SD support up to 256GB, Internal: 32GB or better
<b>Random Access Memory (RAM)</b>	1GB or better	3GB or better	3GB or better
<b>Display</b>	7.0" or above capacitive multi touch or better 16 million colors 170 pixels per inch or better	8" or above capacitive multi touch or better 16 million colors 350 pixels per inch or better	10" or above capacitive multi touch or better 16 million, FHD, 350 pixels per inch or better
<b>Display Technology</b>	(Specify)	(Specify)	(Specify)
<b>Camera Resolution (Primary / Secondary)</b>	(Specify)/(Specify)	(Specify)/(Specify)	(Specify)/(Specify)
<b>Video Codecs</b>	(Specify)	(Specify)	(Specify)
<b>Audio Codecs</b>	(Specify)	(Specify)	(Specify)
<b>Speakers</b>	Yes	Yes	Yes
<b>Input/output Ports</b>	(Specify)	(Specify)	(Specify)
<b>Operating System</b>	Android Version 9.0 or better	Android Version 9.0 or better	Android Version 9.0 or better
<b>Location Tracking Service</b>	(Specify)	(Specify)	(Specify)
<b>Browser</b>	Android Browser with JAVA MIDP and HTML5	Android Browser with JAVA MIDP and HTML5	Android Browser with JAVA MIDP and HTML5
<b>Battery</b>	Built-in 3100mAh or Better	Built-in 4800mAh or Better	Built-in Li-Po 6000mAh or Better
<b>Sensors</b>	(Specify)	(Specify)	(Specify)
<b>Charger</b>	Type G 220V Charger with Cable	Type G 220V Charger with Cable	Type G 220V Charger with Cable
<b>Accessories</b>	(Specify)	(Specify)	(Specify)
<b>Manufacturer Experience</b>	Manufacturer should have minimum of ten years' experience in manufacturing of the same brand. (Proof document should be attached)	Manufacturer should have minimum of ten years' experience in manufacturing of the same brand. (Proof document should be attached)	Manufacturer should have minimum of ten years' experience in manufacturing of the same brand. (Proof document should be attached)
<b>Bidders Experience</b>	The bidder should have successfully sold same similar product for last 3 years (Bidder should provide documentary evidence to support the above)	The bidder should have successfully sold same similar product for last 3 years (Bidder should provide documentary evidence to support the above)	The bidder should have successfully sold same similar product for last 3 years (Bidder should provide documentary evidence to support the above)
<b>Manufacturer Authorization Certificate</b>	Manufacturer Authorization Certificate should be provided	Manufacturer Authorization Certificate should be provided	Manufacturer Authorization Certificate should be provided

	(Originals should be provided on request)	(Originals should be provided on request)	(Originals should be provided on request)
<b>Warranty</b>	Comprehensive on-site manufacturer authorized warranty for 24 months (Labor & Parts) Excluding Consumes. Bidder or its parent company or its subsidiary should have Island wide owned branch network Documentary evidence to be provided of the following under bidders' name. (a) Address, Contact Details & Date of Commencement of each branch/regional office (Should have completed minimum of 5 years from the Date of Commencement of each branch/regional office)	Comprehensive on-site manufacturer authorized warranty for 24 months (Labor & Parts) Excluding Consumes. Bidder or its parent company or its subsidiary should have Island wide owned branch network Documentary evidence to be provided of the following under bidders' name. (a) Address, Contact Details & Date of Commencement of each branch/regional office (Should have completed minimum of 5 years from the Date of Commencement of each branch/regional office)	Comprehensive on-site manufacturer authorized warranty for 24 months (Labor & Parts) Excluding Consumes. Bidder or its parent company or its subsidiary should have Island wide owned branch network Documentary evidence to be provided of the following under bidders' name. (a) Address, Contact Details & Date of Commencement of each branch/regional office (Should have completed minimum of 5 years from the Date of Commencement of each branch/regional office)
<b>Warranty Information</b>	A sticker with -Supplier Name -Contact Numbers -Date of Commissioning of Hardware -Warranty Period on all Tablet Computers	A sticker with -Supplier Name -Contact Numbers -Date of Commissioning of Hardware -Warranty Period on all Tablet Computers	A sticker with -Supplier Name -Contact Numbers -Date of Commissioning of Hardware -Warranty Period on all Tablet Computers
<b>Brochure</b>	Supplier should provide brochure of make/model quoted as per above specification	Supplier should provide brochure of make/model quoted as per above specification	Supplier should provide brochure of make/model quoted as per above specification

## Specimen Bidder's Compliance Check Sheet

### Important:

It is compulsory to use the most recent version of the ICTA Specifications at the time of the Bidding Document Publication. The purchaser should mention the particular version of the specification in the Technical Specification section of the bidding document in the following format:

Example: If the purchaser refers the Type II of the Tablet Computer Specification Version

### ICTA Version: Tablet Computer | ICT-ES-2.1.1V | Type II

Features	Required Minimum Specification	Bidder's Compliance	
		Yes/No	If "No", Bidder's Response
Brand			
Model			
Country of Origin & Country of Manufacture / assembly			
Processor			
Base Frequency			
Cache			
Form Factor			
Chassis			
Chipset			
Motherboard			
Memory			
Maximum memory			
Memory Dims			
Hard disk			
Keyboard			
Mouse			
Optical drive			
Expansion slots			
Video controller			
Network interface			
I/O ports			
Power Supply			
Operating system			
Application Software			
Product certifications of the quoted Model			
Display			
Manufacturer Experience			
Bidders Experience			
Manufacturer Authorization Certificate			
Warranty			
Warranty Information			
Brochure			

## Content References

- <https://byte-notes.com>
- <https://pcpartpicker.com>
- <https://www.choice.com.au>
- <https://www.cnet.com>
- <http://www.globusinfocom.com>
- <https://www.icta.lk>
- <https://www.itbusiness.ca>
- <https://www.pcworld.com>
- <https://www.streetdirectory.com>

## Need Help?

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