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An atom is the basic unit of an element. An atom is a form of matter which may not be further broken down using any chemical means. A typical atom consists of protons, neutrons, and electrons. Any element listed on the periodic table consists of specific atoms. Hydrogen, helium, oxygen, and uranium are examples of types of atoms. Some matter is either smaller or larger than an atom. Examples of chemical species that are not typically considered atoms includes particles that are components of atoms: protons, neutrons, and electrons. Molecules and compounds consist of atoms but are not themselves atoms. Examples of molecules and compounds include salt (NaCl), water (H2O) and methanol (CH2OH). Electrically charged atoms are called ions. They are still types of atoms. Monoatomic ions include H+ and O2-. There are also molecular ions, which are not atoms (e.g., ozone, O3-). Would you consider a single unit of hydrogen to be an example of an atom? Keep in mind, most hydrogen "atoms" do not have a proton, neutron, and electron. Given that the number of protons determines the identity of an element, many scientists consider a single proton to be an atom of the element hydrogen. (Update: The Kickstarter page is now up (opens in new tab) and has already reached \$376,000, collected from nearly 1,800 customers, with 34 days left. The original goal was only \$50,000). Today marks the launch of the Kickstarter campaign for the Unihertz Atom which is billed as the world's smallest 4G rugged smartphone. It is the second attempt from Unihertz at a crowdfunding smartphone; the first try, Project Jelly (opens in new tab), saw nearly 11,000 backers pledging more than \$1.25 million (around £950,000). With Atom, the company is aiming for something even bigger: Where to buy?Unihertz sent us the review sample and the Atom is now on sale for \$159 (£120) for the Super Early Bird (first 100) customers; the price will go up significantly, to \$233 (£175), after the promotional period. The Kickstarter page is up here (opens in new tab).Note that this price excludes delivery (shipping to the US, Japan, and most European countries is free, with the rest of the world costing \$20) and any taxes that may be levied by HMRC or the courier companies on behalf of the vendor. Want to buy tech from online retailers? Read this first.Note that the estimated delivery date for the Unihertz Atom is October 2018, which is four months away at the time of writing. The unit that we were sent for testing was a production-grade model.DesignThe Atom is unlike any smartphone we've seen up until now – it is tiny (97 x 45 x 19mm) and weighs just over 100g. Think of it as a rugged smartphone that has been squashed and compressed into something stockier, which should, in theory, help it survive being dropped better. With rubber used all over its chassis, the Atom feels solid and durable.Where others would have used yellow lines to accentuate its rugged looks, Unihertz chose red as the accent color for the Atom. At the front of the device is a camera and three capacitive buttons, one of which also doubles as a fingerprint reader.A USB Type-C connector, an audio port (both not covered by any flaps), a dual nano-SIM tray, two volume buttons, a power button and a dedicated push-to-talk button can be found on the four sides of the Atom.The back – which is textured – hosts another camera with flash, a speaker grill and the Unihertz logo. There's also a notch that can be used to attach accessories or a neckband.Unihertz Atom specsCPU: Mediatek Helio P23 MT6763GPU: Mali-G71RAM: 4GBStorage: 64GBScreen size: 2.45-inchResolution: 432 x 230Weight: 107gDimensions: 97 x 45 x 19mmRear camera: 4.9MP Front camera: 4.9MPoS: Android 8.1Battery: 2.02AhSpecificationsThe device has been IP68-certified which means that it has been tested and should easily withstand life outdoors, and be capable of dealing with its fair share of water, dust, shock, vibration and extreme temperatures.Despite its low price, the Atom is kitted out with components usually found on mid-range handsets: an 8-core CPU, 4GB of RAM and 64GB on-board storage. There's no microSD card slot, though, and no 802.11ac Wi-Fi.The screen is a 2.45-inch display, offering around a quarter of the surface area of a device like the Vernee Active (with a 5-inch display). The difference is even more obvious when it comes to sheer resolution: a Full HD display has 21x more pixels to manage compared to the 99,360 pixels on the Atom's screen.The 2Ah battery is powered by a 5V,1.5A power supply unit. The battery was one of the compromises that had to be made because of the limited space available in this handset.Unihertz plans to follow GoHero's example and offer a few accessories for outdoorsy types. Three will be available to begin with: an armband for \$13 (£10), a bike mount costing \$15 (£11) and a clip priced at \$12 (£9), or it's \$20 (£15) for all three when purchased with the Atom.BenchmarksHere's how the Unihertz Atom performed in our suite of benchmark tests:Geekbench: 926 (single-core); 4,305 (multi-core); 3,291 (compute)Antutu: 95,179PCMark (Work 2.0): 5,343Passmark: 5,137Passmark CPU: 114,079Androbench (sequential): 285 (sequential read); 213 (sequential write)Androbench (random): 59 (random read); 22 (random write)3DMark Slingshot: 7233DMark Slingshot Extreme: 4793DMark IceStorm Extreme: 8,702HWBot Prime: 4,647In useThe small size and low resolution of the display means the GPU on the Atom didn't have to work as hard as other handsets. That helps explain why it managed to significantly outperform many other rugged smartphones that are powered by similar system-on-chip solutions.The screen – which is oleophobic and covered with Corning Gorilla Glass – has its own issues, all associated with its small size. It is usable but don't expect the same level of comfort as a bigger model – on the default setting, the text is absolutely tiny and will strain your eyes, especially if you wear glasses.Starting and swiping apps works okay but typing on-screen is a proper hassle with keys on the virtual keyboard that are just a few square millimeters in size. Writing emails or typing on WhatsApp will be a major pain, you have been warned!It's all not bad though. We were surprised to find that the Atom is powered by the very latest version of Google's mobile operating system, Android 8.1 (Oreo), and that it even comes with NFC and face unlock.There's also a toolbox that comes with a sound meter, a compass, a bubble line, a picture hanging app, a heart rate measuring app, a plumb bob and a protractor.One thing we did notice is while the small screen will help save juice, the smaller battery capacity translates into a much shorter usable battery life, as the components used here are still standard ones.The competitionThe Atom has no real rival: it is the only 4G smartphone of this size, and it is by far the cheapest IP68 device with the popular 4GB/64GB of memory/storage combination.Final verdictWe had mixed feelings about the Unihertz Atom. On the one hand, it is very affordable, quite compact and very capable. And on the other hand, the small battery capacity and the screen size and resolution just do not feel right. You won't be able to use it for most tasks that require typing.That said, it will appeal to outdoor users, and we can foresee use cases where the device will be used with a plethora of accessories to address its shortcomings: laptop docking stations, Bluetooth headsets etc.For now, we'd love to see Unihertz try its hand at a more conventional form factor. A 4-inch Android IP68 device maybe? One to replace the likes of the Sony Z5 Compact.We've picked out the best rugged smartphonesTODAY'S BEST DEALS An operation during which a processor can simultaneously read a location and write it in the same bus operation. This prevents any other processor or I/O device from writing or reading memory until the operation is complete. Atomic implies indivisibility and irreducibility, so an atomic operation must be performed entirely or not performed at all. An atom is the defining structure of an element, which cannot be broken by any chemical means. A typical atom consists of a nucleus of positively-charged protons and electrically neutral neutrons with negatively-charged electrons orbiting this nucleus. However, an atom can consist of a single proton (i.e., the protium isotope of hydrogen) as a nucleus. The number of protons defines the identity of an atom or its element. The size of an atom depends on how many protons and neutrons it has, as well as whether or not it has electrons. A typical atom size is around 100 picometers or about one ten-billionth of a meter. Most of the volume is empty space, with regions in which electrons may be found. Small atoms tend to be spherically symmetrical, but this is not always true of larger atoms. Contrary to most diagrams of atoms, electrons do not always orbit the nucleus in circles. Atoms can range in mass from 1.67 x 10-27 kg (for hydrogen) to 4.52 x 10-25 kg for superheavy radioactive nuclei. The mass is almost entirely due to protons and neutrons, as electrons contribute negligible mass to an atom. An atom that has an equal number of protons and electrons has no net electrical charge. An imbalance in the numbers of protons and electrons forms an atomic ion. So, atoms may be neutral, positive, or negative. The concept that matter might be made of small units has been around since ancient Greece and India. In fact, the word "atom" was coined in Ancient Greece. However, the existence of atoms was not proven until John Dalton's experiments in the early 1800s. In the 20th century, it became possible to "see" individual atoms with the use of scanning tunneling microscopy. While it's believed electrons formed in the very early stages of the Big Bang formation of the universe, atomic nuclei did not form until perhaps three minutes after the explosion. At present, the most common type of atom in the universe is hydrogen, although over time, increasing amounts of helium and oxygen will exist, likely overtaking hydrogen in abundance. Most of the matter encountered in the universe is made from atoms with positive protons, neutral neutrons, and negative electrons. However, there exists an antimatter particle for electrons and protons with opposite electrical charges. Positrons are positive one another, while antiprotons are negative protons. Theoretically, antimatter atoms might exist or be made. The antimatter equivalent to a hydrogen atom (antihydrogen) was produced at CERN, the European Organization for Nuclear Research, in Geneva in 1996. If a regular atom and an anti-atom were to encounter each other, they would annihilate one another, while releasing considerable energy. Exotic atoms are also possible, in which a proton, neutron, or electron is replaced by another particle. For example, an electron could be replaced with a muon to form a muonic atom. These types of atoms have not been observed in nature, yet may be produced in a laboratory. hydrogen carbon-14 zinc cesium tritium Cl- (a substance can be an atom and an isotope or ion at the same time) Examples of substances that are not atoms include water (H2O), table salt (NaCl), and ozone (O3). Basically, any material with a composition that includes more than one element symbol or that has a subscript following an element symbol is a molecule or compound rather than an atom.

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