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November 11, 2020

Small but mighty: With the Prime Mini IoT, the Swiss computer assembler Prime Computer is launching its first IoT computer. The Mini shines in the test with extremely economical consumption and clever features.



PrimeMini IoT: space-saving thanks to the VESA bracket

(Those: Prime Computer)

As the suffix "IoT" already suggests, the manufacturer plans to use his computer for Internet-of-Things applications, and is therefore ideally positioned because the Mini (18 × 11 × 3 cm, W × D × H) is in the We recommend using the server as a switching and Walt control center. Particularly vertical SME markets are addressed, for example in manufacturing, security solutions, medical practices, kiosk systems, insurance and [business](#) services. There the Mini can be used as a gateway or in so-called "Edge Computer" applications to evaluate data in real time and to carry out a preliminary analysis. It can also function as a decentralized hub for ERP solutions or cloud systems. From an architectural point of view, the computer thus connects to physical objects (for example measuring and sensor systems such as cameras, safety and comfort modules).

The advantage for the company: The edge concept significantly reduces the amount of data required and data volumes, which results in advantages in terms of time during the evaluation and at the same time increases the quality of service.



PrimeMini IoT: extremely economical in terms of power consumption

(Those: Prime Computer)

The outside of the device consists of a full aluminum housing. It can be mounted quite easily using the specially developed VESA bracket. According to the manufacturer, the fanless design of the mini-server is delivered in an optimized standard configuration.

Test and conclusion

In our test, the PrimeMini IoT only consumes 7.5 watts and weighs around 789 grams. In terms of speed, you can't expect world records from the IoT PC. An Intel CPU of the type Celeron N3350 works as the clock generator. This is a dual-core processor with a maximum clock rate of 2.3 GHz, and at least it can throttle its frequency down to 1.1 GHz. The clock generator has 4 GB of RAM and a 64 GB MMC module, which ultimately represents the computer's useful memory. The device achieved a decent 168 cb points in the Cinebench R20 test. The server itself starts up its operating system completely in around 30 seconds, which is Windows 10 Enterprise LTSC 2019. LTSC 2019 stands for "Long Term Servicing Channel" and is an update channel reserved for corporate customers for the Windows 10 Enterprise edition with long-term support. On the connection side, two HDMI ports are embedded in the metal chassis, which can be configured either as two Full HD ports (resolution: 1,920 × 1,080 pixels) or as a 4K port (3,840 × 2,160 pixels).



PrimeMini IoT: fanless design

(Those: Prime Computer)

The lavish and successful connection options are complemented by a total of four USB ports, two each in version 2.0 and two in version 3.0. The PrimeMini-IoT computer provides Gbit-LAN as well as the two wireless transmission standards Bluetooth and WLAN-AC (dual-band) as broadband connections. When using wireless [technology](#), two tiltable and rotatable rod antennas can be screwed to the IoT PC on the back of the server. The bottom line is that the equipment of the tiny can be pleasing. The five-year guarantee offered by the manufacturer rounds off the strong overall picture of the mini-server.

Conclusion: The PrimeMini IoT is the savvy among the mini-servers – and optimally adjusted by the manufacturer for its purposes. It collects many plus points due to its low power consumption, fine equipment, fanless design and low purchase price.