Hardware: DFI, Ryzen, GPUs and More

By Roy Schestowitz
Created 17/03/2020 - 5:39am
Submitted by Roy Schestowitz on Tuesday 17th of March 2020 05:39:21 AM Filed under Hardware [1]

- Raspberry Pi sized SBC is smallest Ryzen R1000-based model yet [2]

  DFI?s Linux-friendly, Raspberry Pi sized ?GHF51? SBC has a Ryzen Embedded R1000, up to 8GB DDR4 and 64GB eMMC, GbE and USB 3.1 Gen2 Type-C, 2x micro-HDMI, and optional -20 to 70°C support.

  DFI has posted preliminary specs for what appears to be the smallest AMD Ryzen Embedded SBC yet. The GHF51 runs Linux or Win 10 IoT Enterprise on AMD?s Ryzen Embedded R1000, the dual-core, slightly stripped down sibling to the up to quad-core Ryzen Embedded V1000. Its Raspberry Pi-like, 84 x 55mm footprint is much smaller than Sapphire Technology?s 101.6 x 101.6mm NP-FP5 and BP-FP5 SBCs, as well as several larger, R1000 compatible 3.5-inch and Mini-ITX boards we?ve seen, such as Seco?s recent, 3.5-inch SBC-C90 and DFI?s full-height Mini-ITX GH171, both of which also support the V1000.

- DFI GHF51 Ryzen Embedded R1000 SBC is about the Size of a Raspberry Pi [3]

  We?ve seen a fair amount of AMD Ryzen Embedded boards over the last few months including 3.5? Ryzen Embedded SBC?s such as Kontron SBC-VR1000 and IBASE Technology IB918, as well as larger boards such as SAPPHERE FS-FP5R 5×5 motherboard.

  The most compact Ryzen Embedded board we covered so far must have been the upcoming Sapphire NP-FP5 based on Ryzen R1305G processor with a 4?x4? (10.16 x 10.16 cm) form factor. But DFI GHF51 1.8? SBC takes the crown of the smallest Ryzen Embedded SBC, with the business card / Raspberry Pi sized board measuring just 84 x 55 mm, and featuring an AMD Ryzen Embedded R1000-series processor combined with up to 8GB RAM.
AMD today announced the Ryzen 9 4900H as their new top-end Zen 2 mobile processor for notebooks.

The AMD Ryzen 9 4900H is an eight-core / sixteen thread part with a 3.3GHz base frequency and 4.4GHz boost clock. This Renoir processor comes with a 45 Watt TDP given its 8c/16t setup and high clock frequencies.

**Put Your PC To Work Fighting Against Coronavirus**

Graphics cards are obviously a useful tool for gaming, video editing and even cryptocurrency mining. But did you know you can ?donate? your AMD Radeon or Nvidia GPU?S spare compute cycles to researching and potentially fighting against the ongoing coronavirus pandemic?

**Omnichip Devkit 2 Features Nordic nRF52832 based zGlue ZiP Multichip Module**

We first covered zGlue Integration Platform (ZiP) in 2018 when the company introduced its chip-stacking technology with a fitness tracker based on ZGZL1BA ZiP equipped with chips from Dialog Semiconductor, Analog Devices, Macronix, MCube and others.